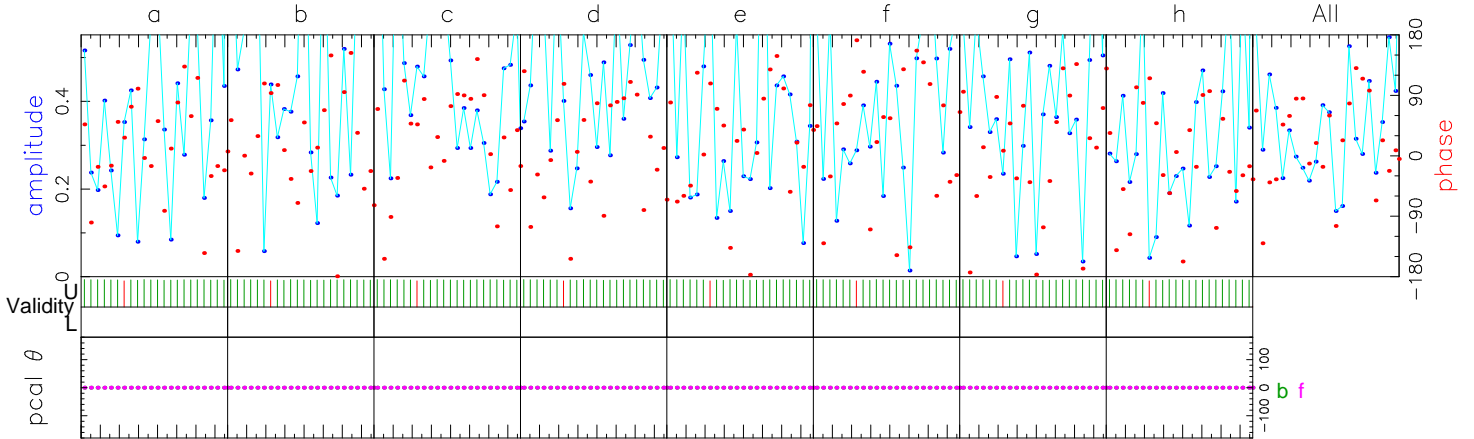


Fringe quality 9

SNR 10.5
Int time 432.356
Amp 0.184
Phase 33.0
PFD 5.8e-17
Delays (us)
SBD -0.001962
MBD -0.000721
Fringe rate (Hz)
-0.005420
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

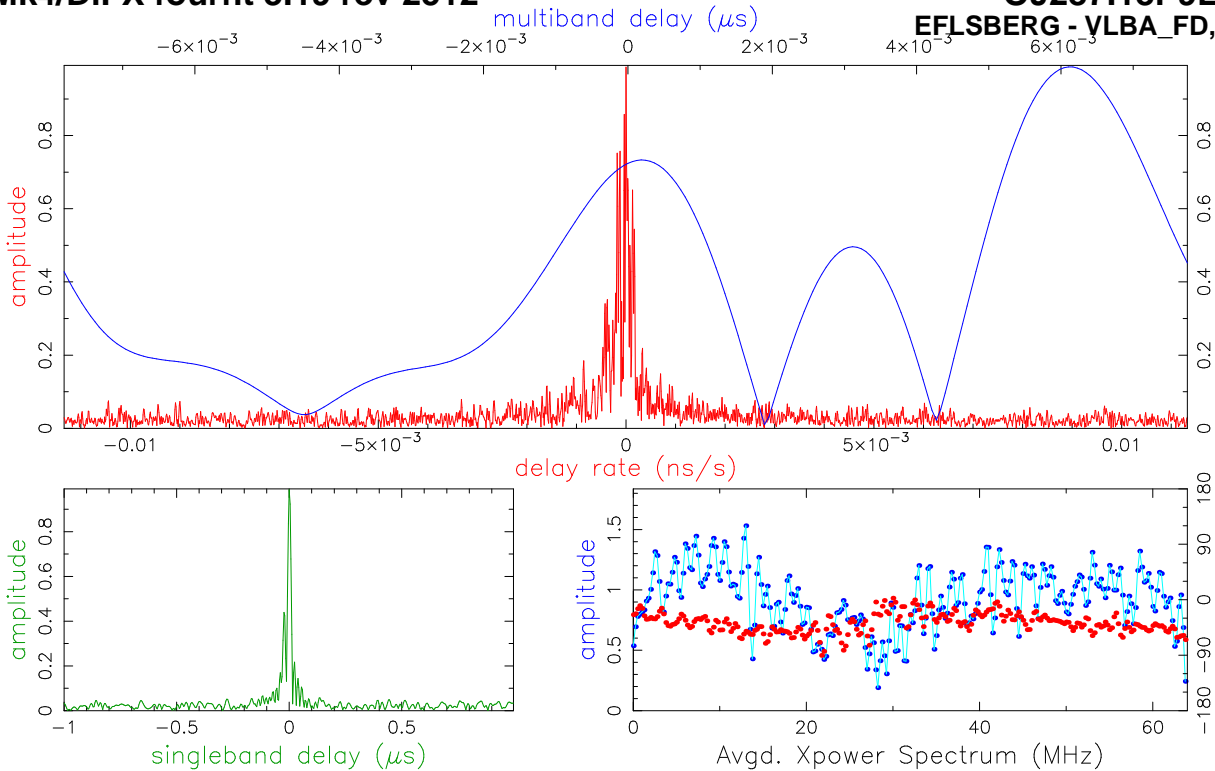
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120754
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



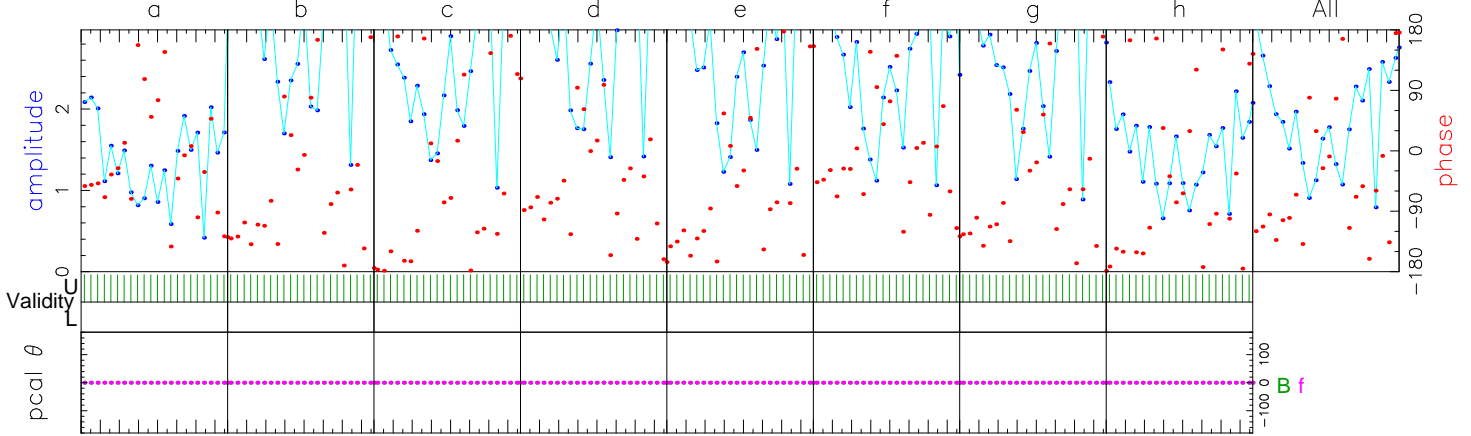
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.95654673482E+03				-3.95654601423E+03					
Sband delay (usec)	-3.95654797623E+03				-5.2896152E+00					
Phase delay (usec)	-3.95654601316E+03				-1.5100001E-07					
Delay rate (us/s)	-1.84487496859E-02				-1.84486867660E-02					
Total phase (deg)			-206.5		3.00928808314E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode:	MANUAL	MANUAL			MANUAL	MANUAL				
PCal rate:	0.000E+00	0.000E+00			0.000E+00	0.000E+00				
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
PC period (AP's)	5	5								
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 68.9 26.3 Search (2048X32) 0.172 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 107.1 45.8 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.4 15.5 Inc. seg. avg. 0.309 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.2 27.0 Inc. frq. avg. 0.182 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 99.1 el 35.1 pa -44.6 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 159.475 2817.705 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bf.W.22.18P9EC



Fringe quality 1
 SNR 56.6
 Int time 435.366
 Amp 0.992
 Phase -99.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.000799
 MBD 0.006174
 Fringe rate (Hz)
 0.000108
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120755
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

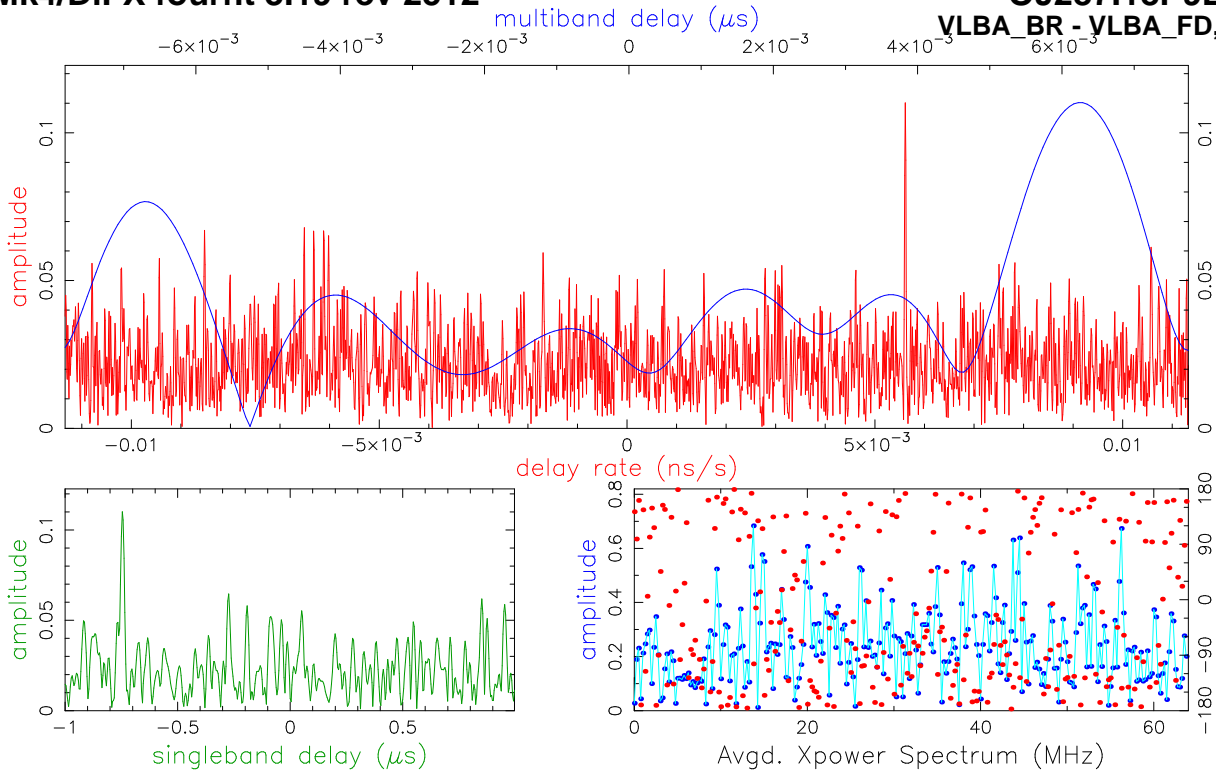
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.13749528601E+03									
Sband delay (usec)	-6.13750066004E+03									
Phase delay (usec)	-6.13750146276E+03									
Delay rate (us/s)	-1.70961612193E+00									
Total phase (deg)			-0.8							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude	77.7	4.9								
amp/seg (%)	109.1	8.5								
ph/frq (deg)	51.2	2.9								
amp/frq (%)	46.9	5.0								
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.992 +/- 0.018										
0.967										
0.000										
1.878										
1.289										
0.000E+00, 0.000E+00 (us/s)										
-3.0900000E-07										
-1.70961612319E+00										
4.28215205255E-05										
6.17353E-03										
7.99500E-04										
-3.21787E-06										
1.25911E-09										
-99.8										
+/- 1.9E-05										
+/- 1.5E-04										
+/- 6.5E-08										
+/- 2.6E-10										
+/- 2.0										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bf
VLBA_BR - VLBA_FD, fgroup W, pol LR

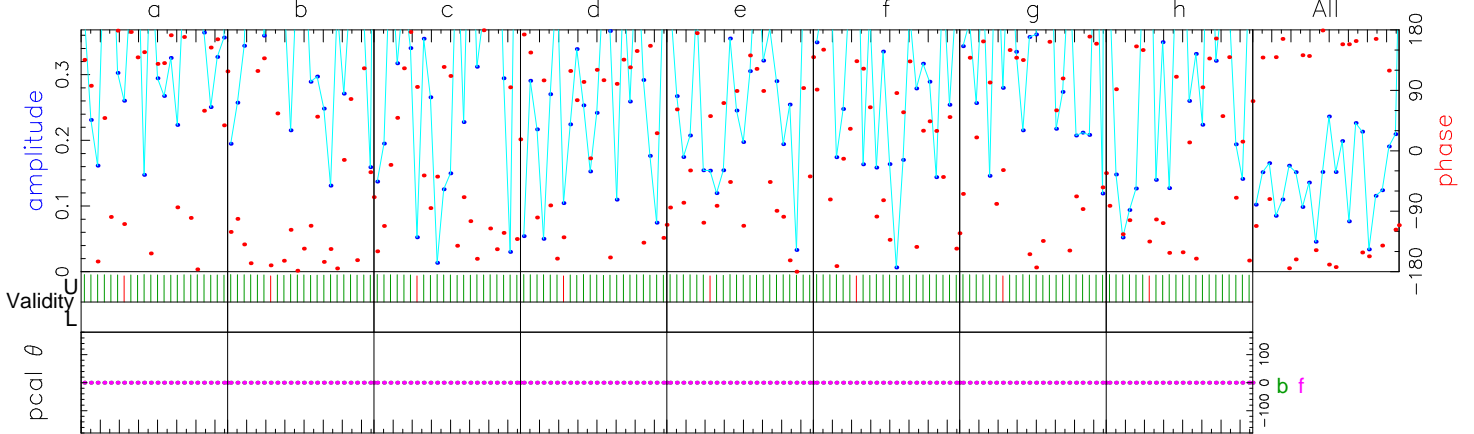


Fringe quality 0

SNR 6.3
Int time 432.356
Amp 0.123
Phase -177.6
PFD 7.9e-02
Delays (us)
SBD -0.745087
MBD 0.006298
Fringe rate (Hz)
0.484422
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120758
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

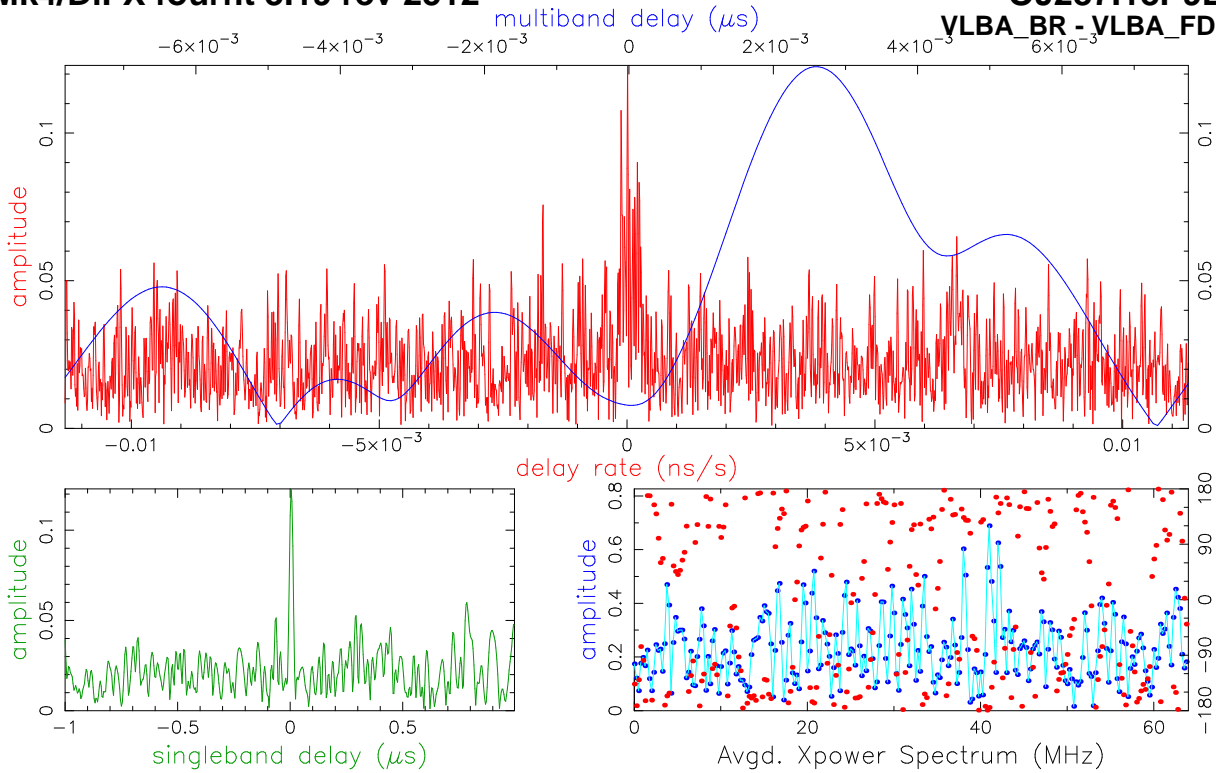


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-3.95728971638E+03			-3.95654601423E+03				6.29785E-03	+/- 1.7E-04
Sband delay (usec)		-3.95729110098E+03			-5.2896152E+00				-7.45087E-01	+/- 1.4E-03
Phase delay (usec)		-3.95654601995E+03			-1.5100001E-07				-5.72725E-06	+/- 5.9E-07
Delay rate (us/s)		-1.84430631022E-02			-1.84486867660E-02				5.62366E-06	+/- 2.3E-09
Total phase (deg)			-57.2		3.00928808314E-05				-177.6	+/- 18.2
pcal mode:					MANUAL				MANUAL	PC period (AP's) 5, 5
pcal rate:					0.000E+00				0.000E+00	(us/s)
Bits/sample:					2x2				SampCntNorm: enabled	sb window (us) -1.000 1.000
Sample rate (MSamp/s):					128					mb window (us) -0.008 0.008
Data rate (Mb/s):					2048					dr window (ns/s) -0.011 0.011
										ion window (TEC) 0.00 0.00

ph/seg (deg) 40.5 43.6 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 58.6 76.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 58.3 25.7 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 55.5 44.9 Inc. frq. avg. 0.127 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 99.1 el 35.1 pa -44.6 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 159.475 2817.705 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bf.W.41.18P9EC

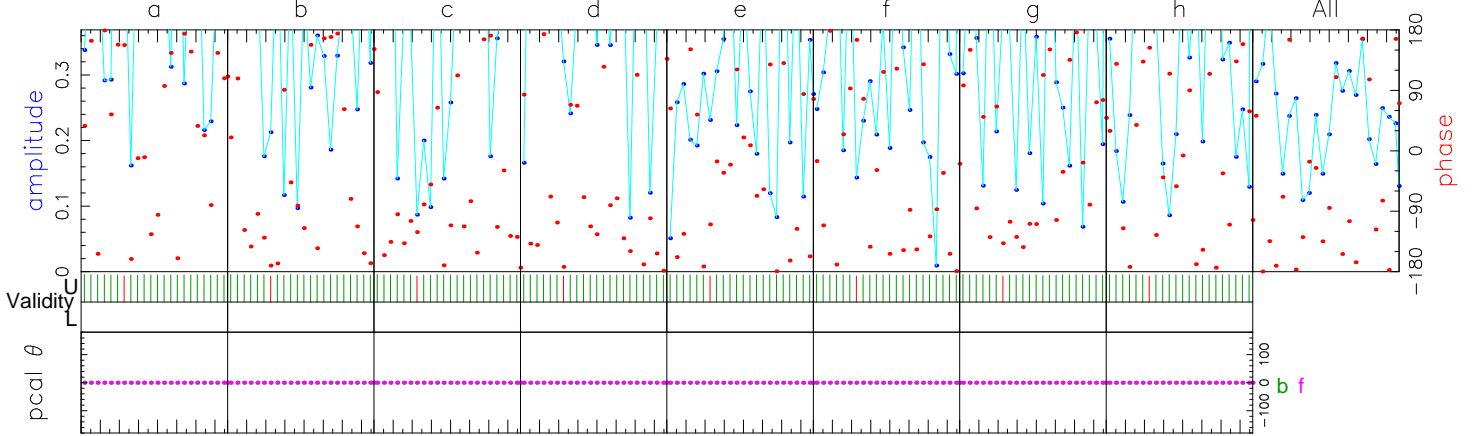
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bf
VLBA_BR - VLBA_FD, fgroup W, pol LL



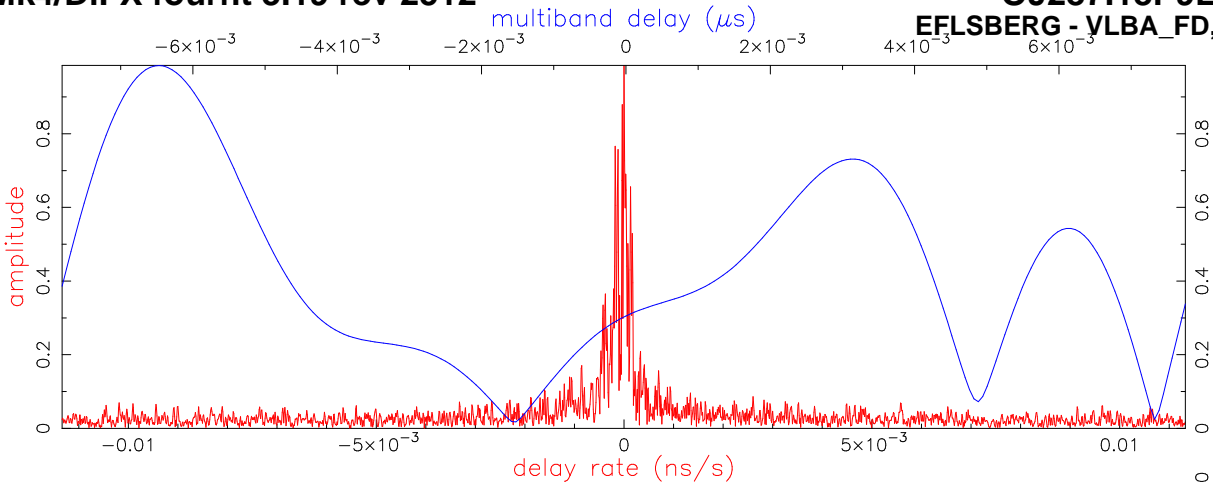
Fringe quality 0
SNR 7.0
Int time 432.356
Amp 0.123
Phase -158.3
PFD 8.3e-04
Delays (us)
SBD 0.004669
MBD 0.002600
Fringe rate (Hz)
0.000520
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120749
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

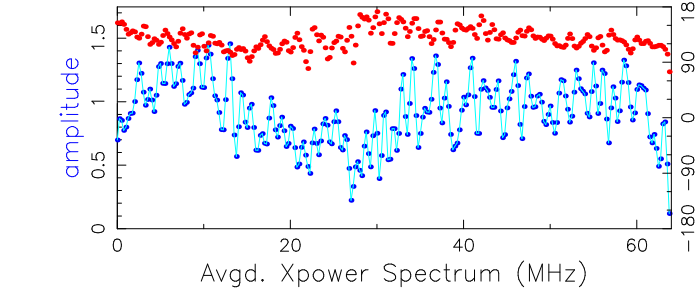
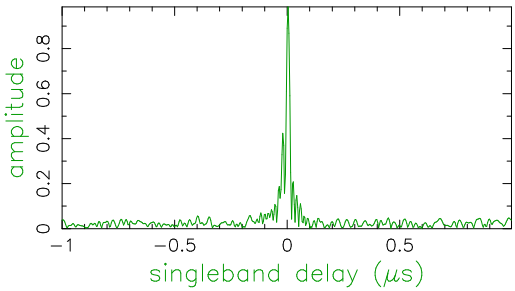


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.95654341395E+03				-3.95654601423E+03				2.60028E-03	+/- 1.6E-04
Sband delay (usec)	-3.95654134498E+03				-5.2896152E+00				4.66925E-03	+/- 1.2E-03
Phase delay (usec)	-3.95654601933E+03				-1.5100001E-07				-5.10621E-06	+/- 5.3E-07
Delay rate (us/s)	-1.84486807333E-02				-1.84486867660E-02				6.03266E-09	+/- 2.1E-09
Total phase (deg)			-37.9		3.00928808314E-05				-158.3	+/- 16.4
pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000							
Bits/sample:	2x2		SampCntNorm: enabled mb window (us) -0.008 0.008							
Sample rate (MSamp/s):	128		dr window (ns/s) -0.011 0.011							
Data rate (Mb/s):	2048		ion window (TEC) 0.00 0.00							
nlags:	256		t_cohere infinite							

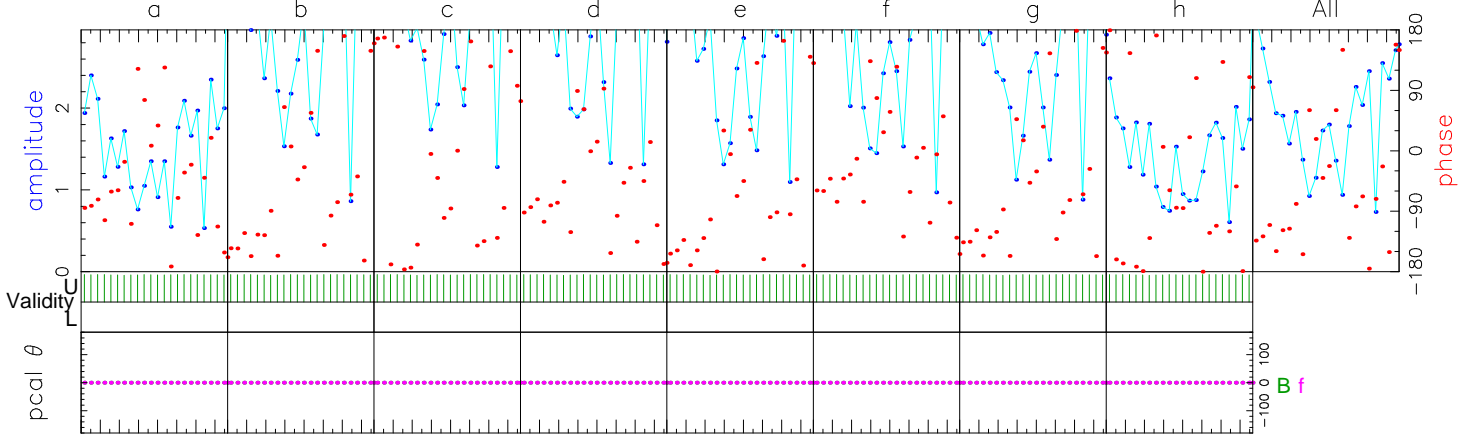
ph/seg (deg) 70.9 39.3 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 115.9 68.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 40.0 23.2 Inc. seg. avg. 0.198 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.8 40.5 Inc. frq. avg. 0.130 Sample rate (MSamp/s): 128 dr window (ns/s) -0.011 0.011
b: az 99.1 el 35.1 pa -44.6 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 159.475 2817.705 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bf.W.4.18P9EC simultaneous interpolator



Fringe quality 1
SNR 56.2
Int time 435.366
Amp 0.986
Phase -114.3
PFD 0.0e+00
Delays (us)
SBD 0.003674
MBD -0.006485
Fringe rate (Hz)
0.000117
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120800
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



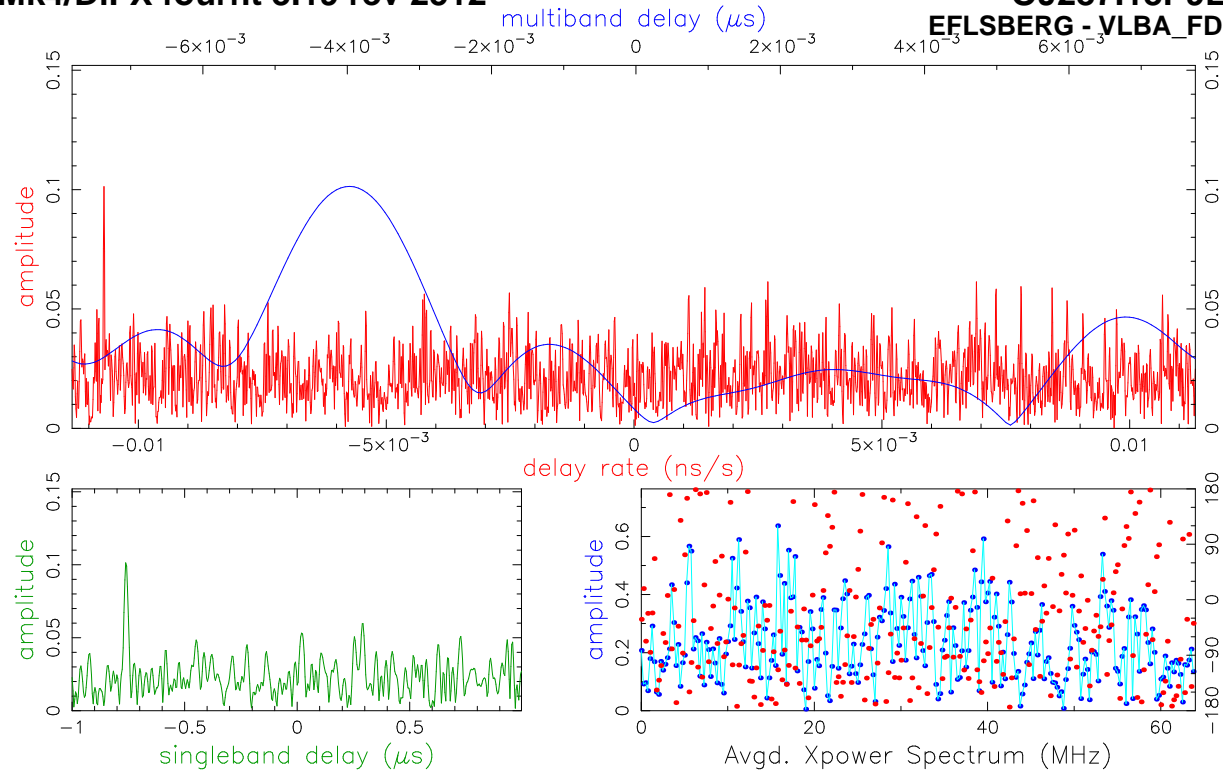
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-64.7	-127.0	-175.0	-74.1	-136.3	-42.2	-119.7	-159.1	Phase	-114.3
	0.8	1.5	1.7	1.6	1.6	1.5	1.4	0.7	Ampl.	1.4
	254.4	257.3	258.5	258.4	258.7	258.2	257.2	252.5	Sbd box	257.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.13749231989E+03		Apriori delay (usec)		-6.13750145954E+03		Resid mbdelay (usec)		-6.48534E-03	+/- 1.9E-05
Sband delay (usec)	-6.13749778529E+03		Apriori clock (usec)		9.1706486E+00		Resid sbdelay (usec)		3.67425E-03	+/- 1.5E-04
Phase delay (usec)	-6.13750146323E+03		Apriori clockrate (us/s)		-3.0900000E-07		Resid phdelay (usec)		-3.68707E-06	+/- 6.6E-08
Delay rate (us/s)	-1.70961612183E+00		Apriori rate (us/s)		-1.70961612319E+00		Resid rate (us/s)		1.35476E-09	+/- 2.6E-10
Total phase (deg)			Apriori accel (us/s/s)		4.28215205255E-05		Resid phase (deg)		-114.3	+/- 2.0

	RMS	Theor.	Amplitude	0.986 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	77.5	4.9	Search (2048X32)	0.975	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	112.1	8.5	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	51.1	2.9	Inc. seg. avg.	1.889	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	51.9	5.0	Inc. frq. avg.	1.351	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 265.9 el 29.7 pa 42.5 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 10488.164 3352.735 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bf.W.47.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Bf
EFLSBERG - VLBA_FD, fgroup W, pol LL

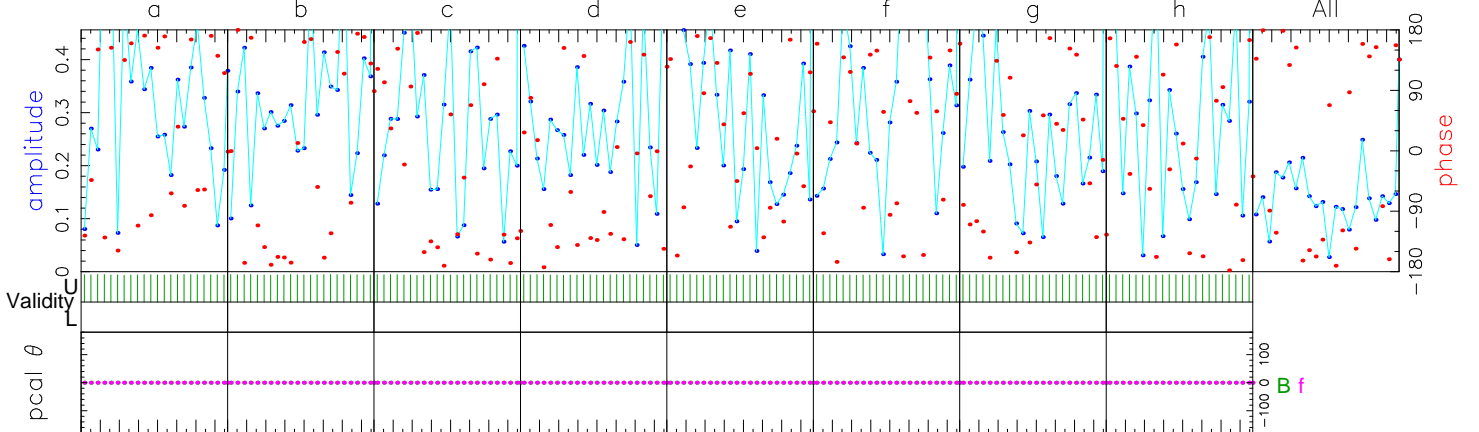


Fringe quality 0

SNR 5.8
Int time 435.366
Amp 0.152
Phase -175.5
PFD 7.6e-01
Delays (us)
SBD -0.760410
MBD -0.003929
Fringe rate (Hz)
-0.922269
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

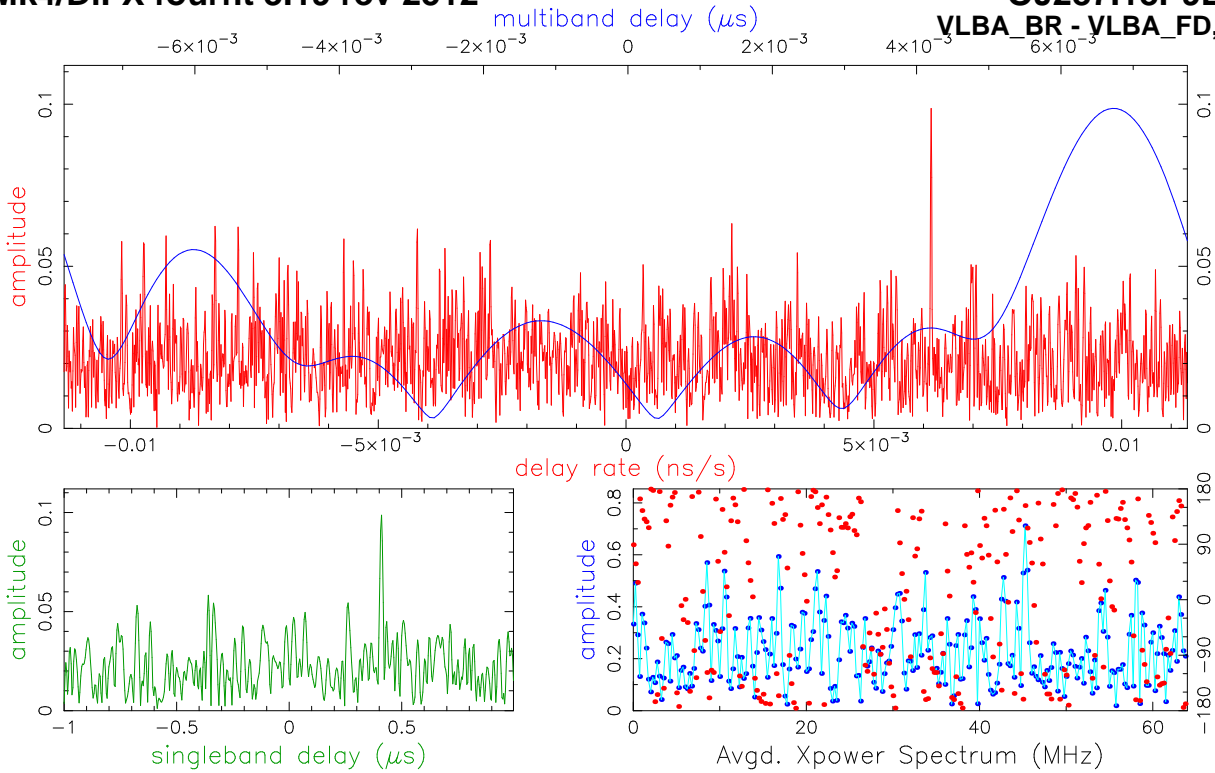
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120749
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-158.4	-177.1	147.3	-150.2	-174.0	152.9	-146.2	-178.5	Phase	-175.5
	0.2	0.3	0.1	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1
	493.0	165.3	274.3	162.1	221.9	330.7	481.7	501.2	Sbd box	62.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.13825538881E+03		Apriori delay (usec)		-6.13750145954E+03		Resid mbdelay (usec)		-3.92927E-03	+/- 1.9E-04
Sband delay (usec)	-6.13826186979E+03		Apriori clock (usec)		9.1706486E+00		Resid sbdelay (usec)		-7.60410E-01	+/- 1.5E-03
Phase delay (usec)	-6.13750146520E+03		Apriori clockrate (us/s)		-3.0900000E-07		Resid phdelay (usec)		-5.66096E-06	+/- 6.3E-07
Delay rate (us/s)	-1.70962682982E+00		Apriori rate (us/s)		-1.70961612319E+00		Resid rate (us/s)		-1.07066E-05	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.28215205255E-05		Resid phase (deg)		-175.5	+/- 19.7

ph/seg (deg) 52.4 47.2 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.9 82.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.4 27.8 Inc. seg. avg. 0.153 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.6 48.5 Inc. frq. avg. 0.145 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 265.9 el 29.7 pa 42.5 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 10488.164 3352.735 ion window (TEC) 0.00 0.00
 simultaneous interpolator

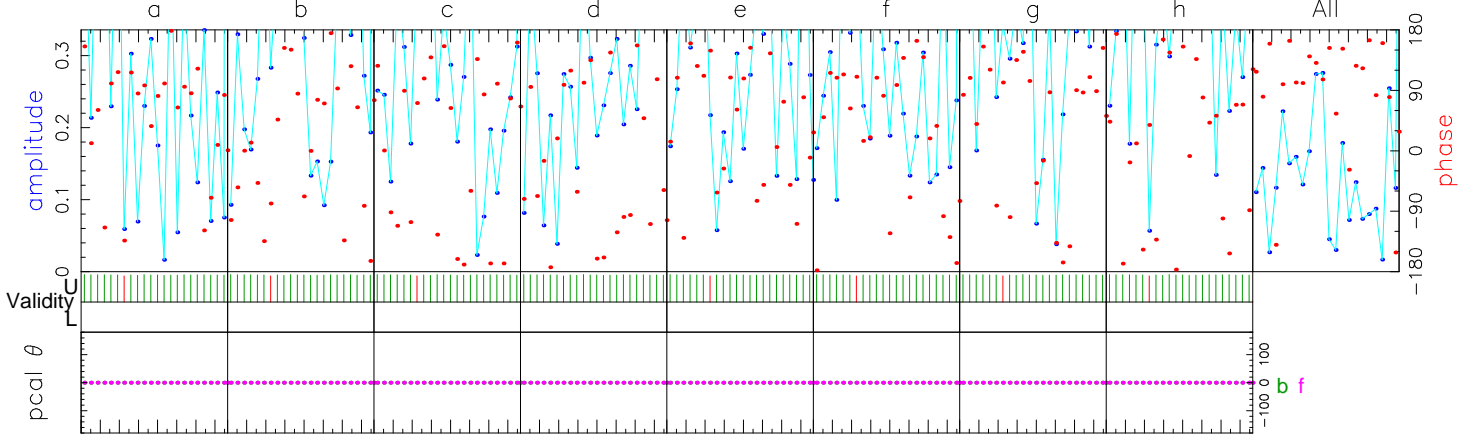


Fringe quality 0

SNR 5.6
Int time 432.356
Amp 0.112
Phase 120.9
PFD 9.9e-01
Delays (us)
SBD 0.409728
MBD 0.006725
Fringe rate (Hz)
0.531311
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

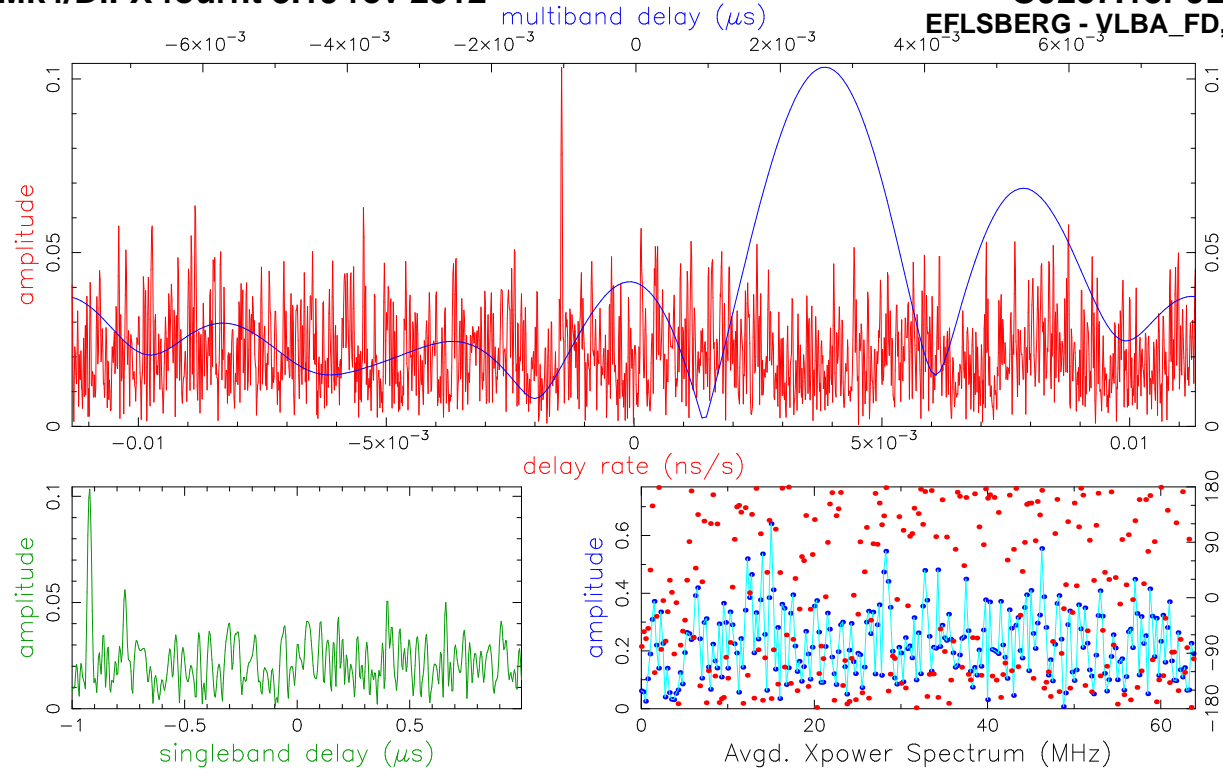
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120803
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



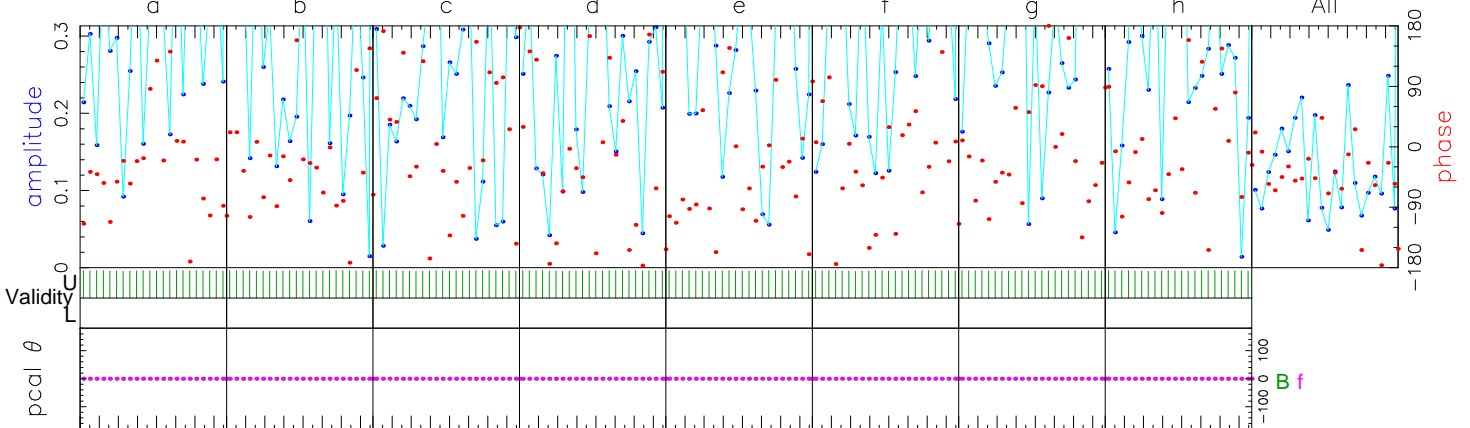
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.95613303942E+03				-3.95654601423E+03				6.72481E-03	+/- 1.9E-04
Sband delay (usec)	-3.95613628623E+03				-5.2896152E+00				4.09728E-01	+/- 1.5E-03
Phase delay (usec)	-3.95654601033E+03				-1.5100001E-07				3.89969E-06	+/- 6.6E-07
Delay rate (us/s)	-1.84425187726E-02				-1.84486867660E-02				6.16799E-06	+/- 2.6E-09
Total phase (deg)			-118.7		3.00928808314E-05				120.9	+/- 20.4
pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
pcal rate:	0.000E+00, 0.000E+00 (us/s)									
Bits/sample:	2x2		SampCntNorm: enabled							
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048		nlags: 256 t_cohere infinite							
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 52.1 48.9 Search (2048X32) 0.097 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 83.9 85.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.7 28.8 Inc. seg. avg. 0.108 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.5 50.3 Inc. frq. avg. 0.103 Sample rate (MSamp/s): 128 dr window (ns/s) -0.011 0.011
 b: az 99.1 el 35.1 pa -44.6 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 159.475 2817.705 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bf.W.62.18P9EC simultaneous interpolator



Fringe quality 0
SNR 5.9
Int time 435.366
Amp 0.104
Phase -36.8
PFD 5.6e-01
Delays (us)
SBD -0.922818
MBD 0.002584
Fringe rate (Hz)
-0.125610
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120804
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

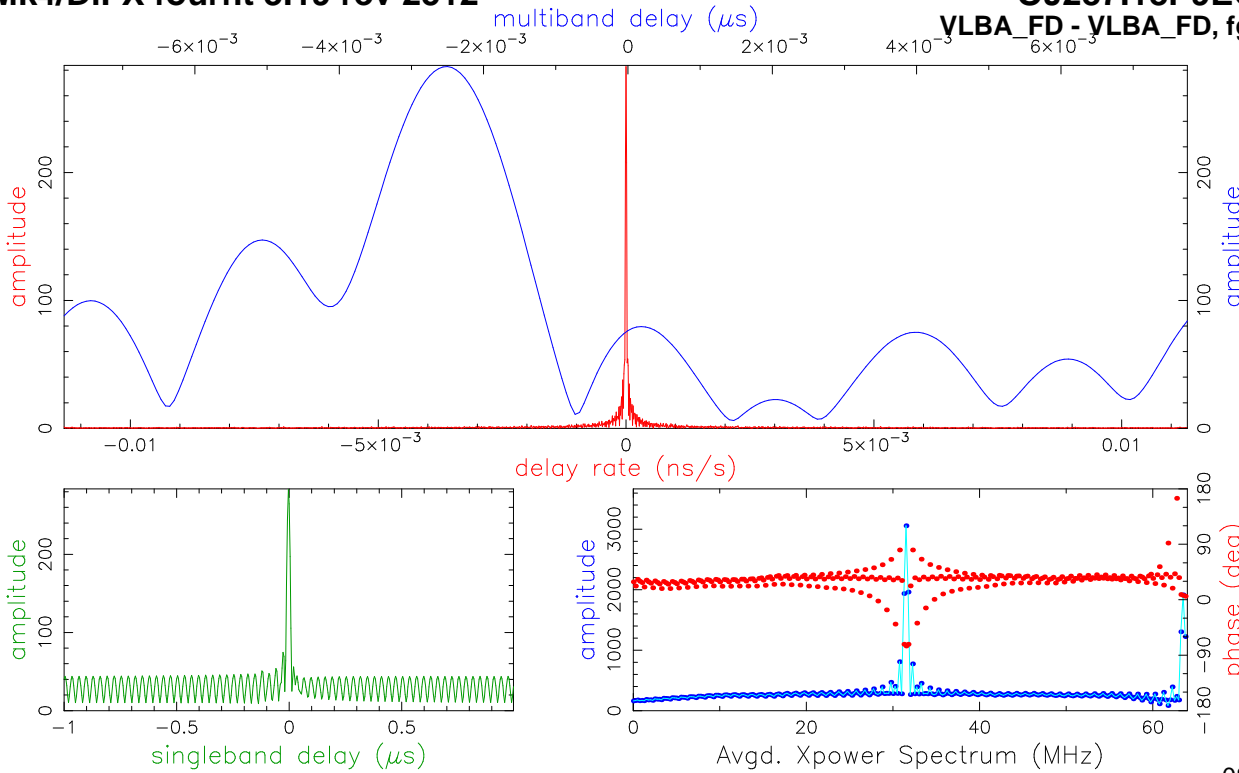
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.13842075096E+03	Apriori delay (usec)	-6.13750145954E+03	Resid mbdelay (usec)	2.58358E-03	+/-	1.8E-04
Sband delay (usec)	-6.13842427754E+03	Apriori clock (usec)	9.1706486E+00	Resid sbdelay (usec)	-9.22818E-01	+/-	1.5E-03
Phase delay (usec)	-6.13750146073E+03	Apriori clockrate (us/s)	-3.0900000E-07	Resid phdelay (usec)	-1.18781E-06	+/-	6.2E-07
Delay rate (us/s)	-1.70961758139E+00	Apriori rate (us/s)	-1.70961612319E+00	Resid rate (us/s)	-1.45820E-06	+/-	2.5E-09
Total phase (deg)	-297.8	Apriori accel (us/s/s)	4.28215205255E-05	Resid phase (deg)	-36.8	+/-	19.4

ph/seg (deg)	49.3	Theor.	46.4	Amplitude	0.104 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	64.3	Search (2048X32)	0.100	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	29.1	Inc. seg. avg.	0.098	Inc. frq. avg.	0.100	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	52.5	Inc. frq. avg.	0.100			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

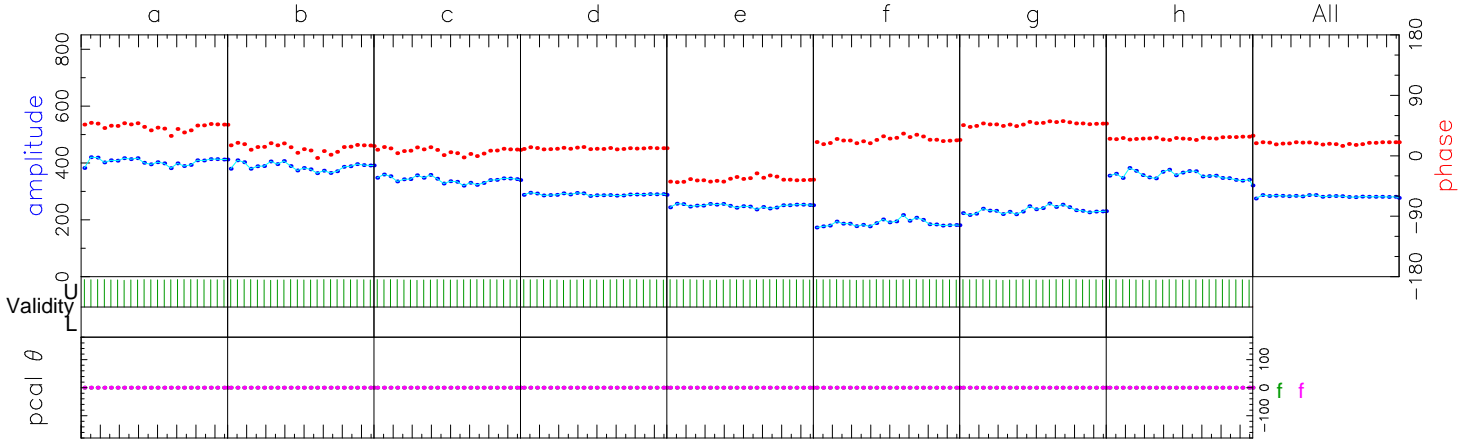


Fringe quality 6

SNR 16190.5
Int time 435.424
Amp 283.731
Phase 18.5
PFD 0.0e+00
Delays (us)
SBD -0.003211
MBD -0.002518
Fringe rate (Hz)
-0.000008
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

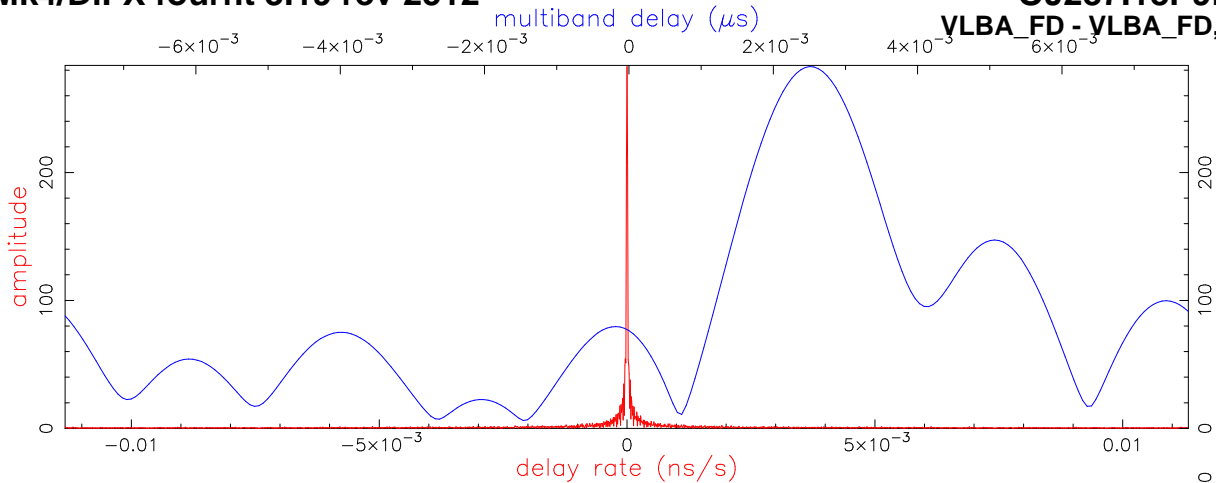
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120816
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



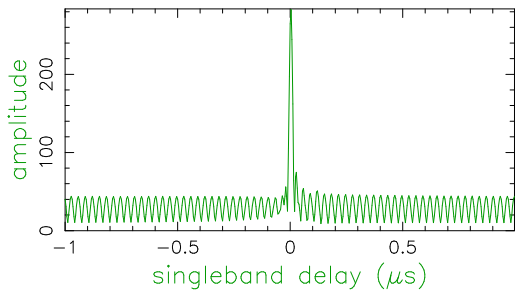
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-2.51840625000E-03				0.00000000000E+00			Resid mbdelay (usec)	-2.51841E-03 +/- 6.7E-08
Sband delay (usec)		-3.21075000000E-03				0.0000000E+00			Resid sbdelay (usec)	-3.21075E-03 +/- 5.3E-07
Phase delay (usec)		5.96099706181E-07				0.0000000E+00			Resid phdelay (usec)	5.96100E-07 +/- 2.3E-10
Delay rate (us/s)		-9.70723938830E-11				0.00000000000E+00			Resid rate (us/s)	-9.70724E-11 +/- 9.0E-13
Total phase (deg)			18.5			0.00000000000E+00			Resid phase (deg)	18.5 +/- 0.0

ph/seg (deg) 1.5 0.0 Theor. Amplitude 283.731 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.0 0.0 Search (2048X32) 282.017 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.9 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.8 0.0 Inc. seg. avg. 282.897 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ff..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ff.W.111.18P9EC simultaneous interpolator

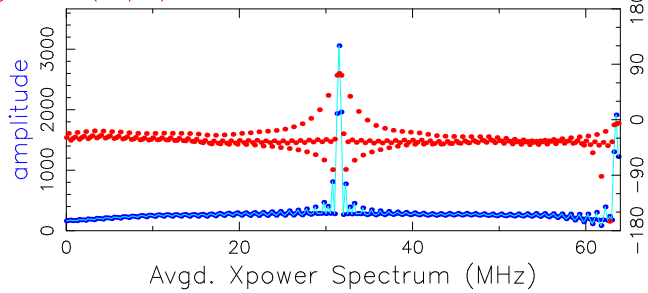


Fringe quality 6

SNR 16190.5
Int time 435.424
Amp 283.731
Phase -18.5
PFD 0.0e+00
Delays (us)
SBD 0.003211
MBD 0.002518
Fringe rate (Hz)
0.000008
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

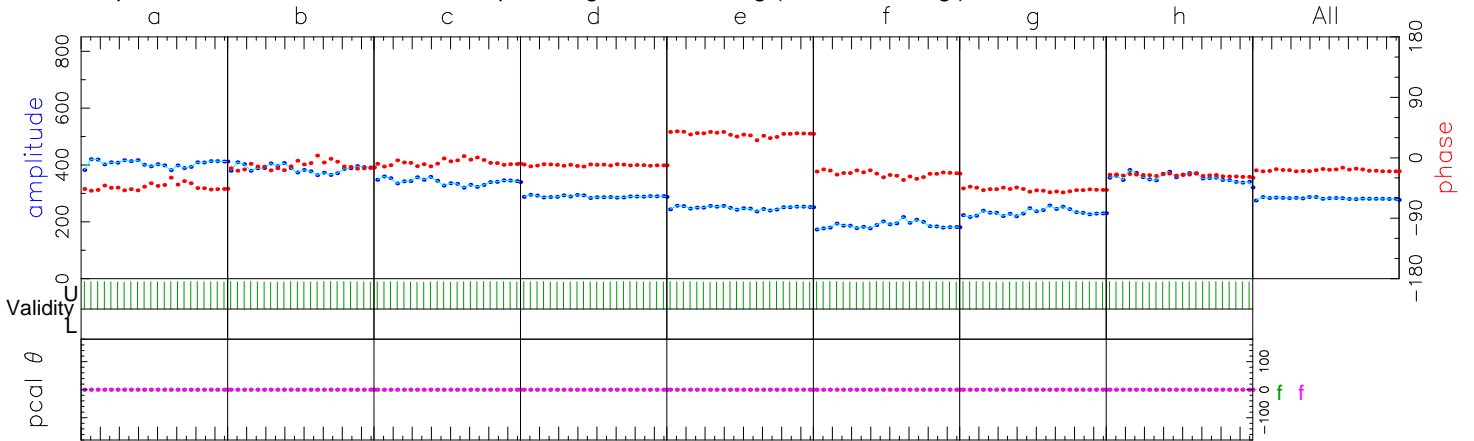


delay rate (ns/s)



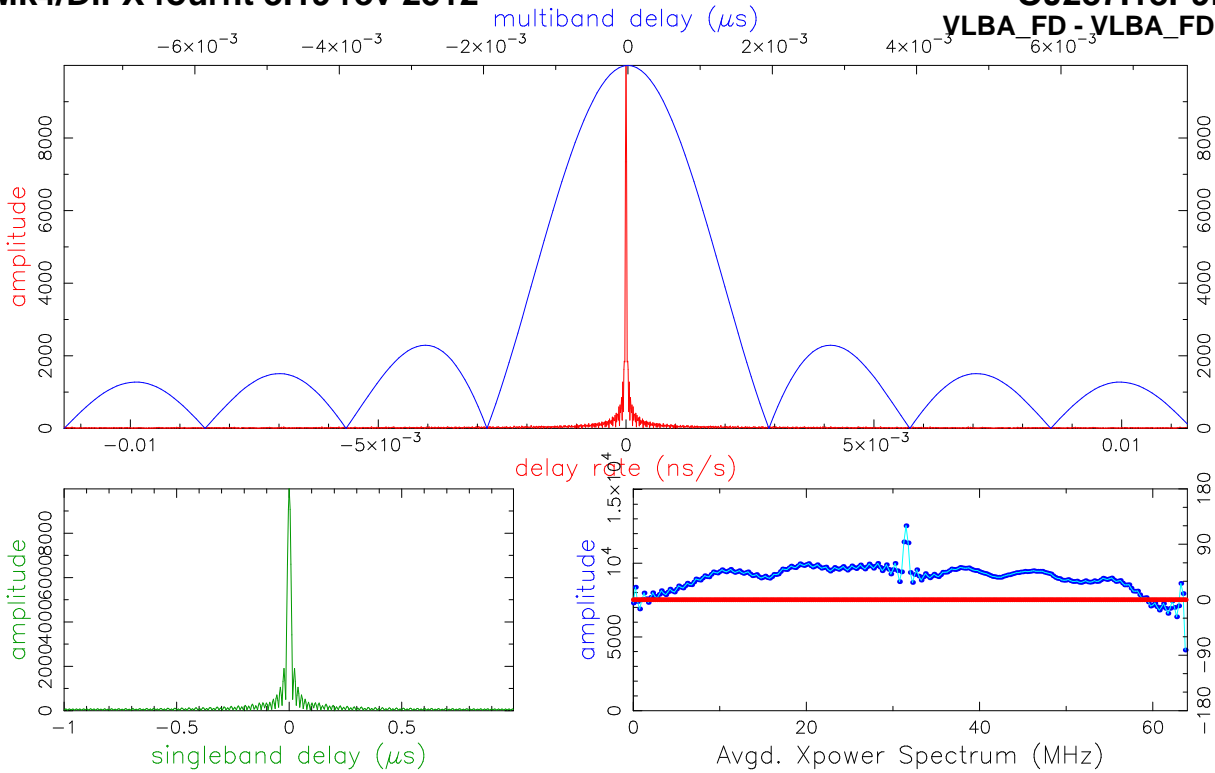
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120821
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-43.4	-12.0	-7.1	-11.0	35.1	-24.2	-47.7	-25.9	Phase	-18.5
	403.6	385.1	340.5	289.3	249.0	188.1	233.7	357.3	Ampl.	305.8
	258.0	258.0	257.7	257.7	257.1	257.4	257.8	258.3	Sbd box	257.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.51840625000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.51841E-03	+/- 6.7E-08
Sband delay (usec)	3.21075000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		3.21075E-03	+/- 5.3E-07
Phase delay (usec)	-5.96099706142E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.96100E-07	+/- 2.3E-10
Delay rate (us/s)	9.70723938830E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		9.70724E-11	+/- 9.0E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-18.5	+/- 0.0

ph/seg (deg) 1.5 0.0 Theor. Amplitude 283.731 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.0 0.0 Search (2048X32) 282.017 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.9 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.8 0.0 Inc. seg. avg. 282.897 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 0.000 0.000 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ff..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ff.W.131.18P9EC simultaneous interpolator

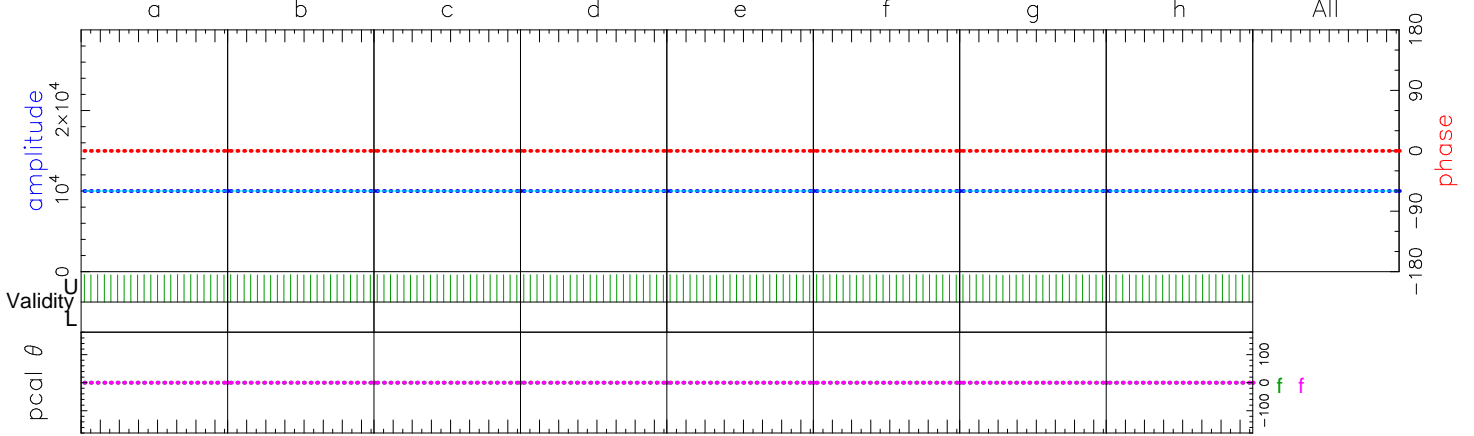


Fringe quality 9

SNR 570628.9
Int time 435.424
Amp 9999.999
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Yr:day 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120809
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

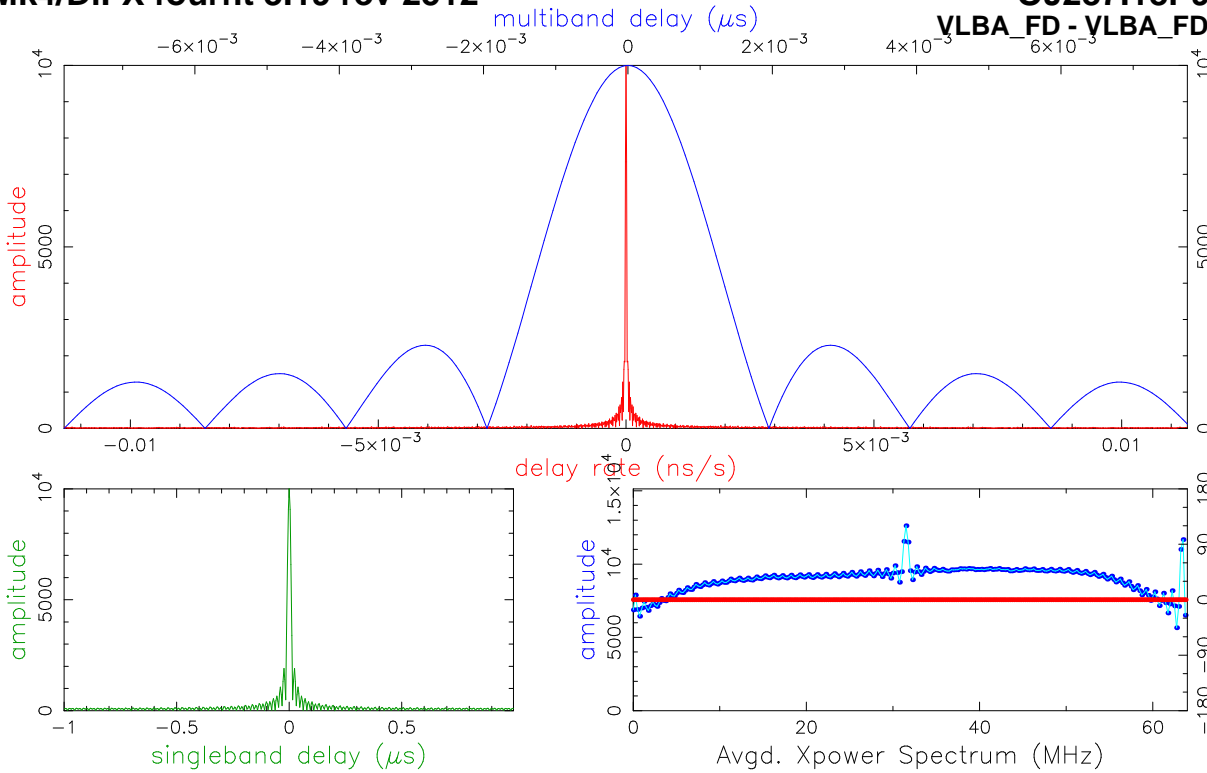
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

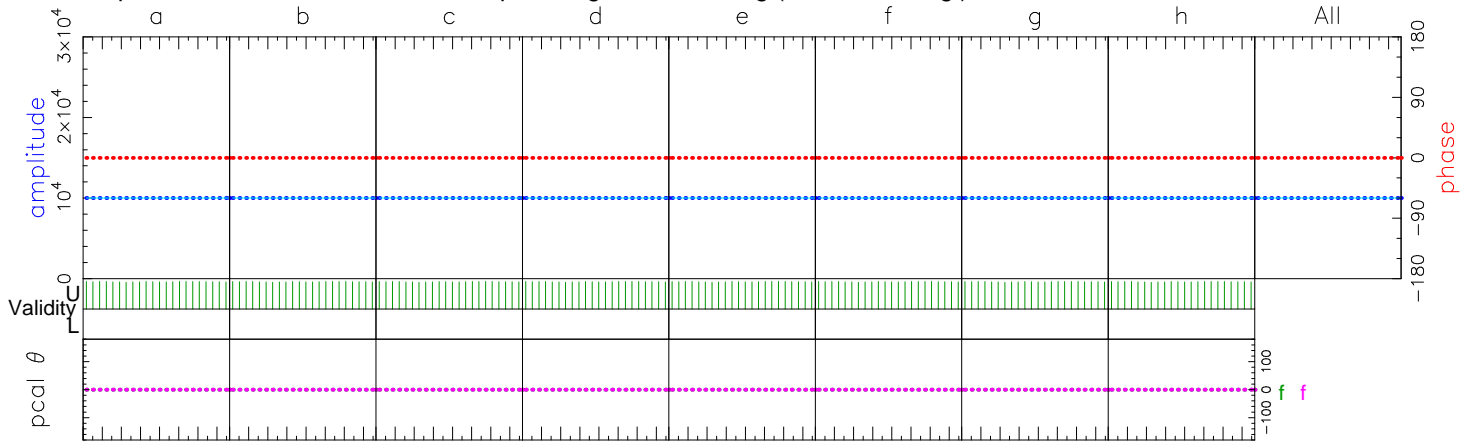
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-6.46378297696E-21	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-6.46378E-21	+/-	6.5E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.6E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ff..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ff.W.81.18P9EC simultaneous interpolator



Fringe quality 9
SNR 570628.9
Int time 435.424
Amp 10000.002
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120812
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

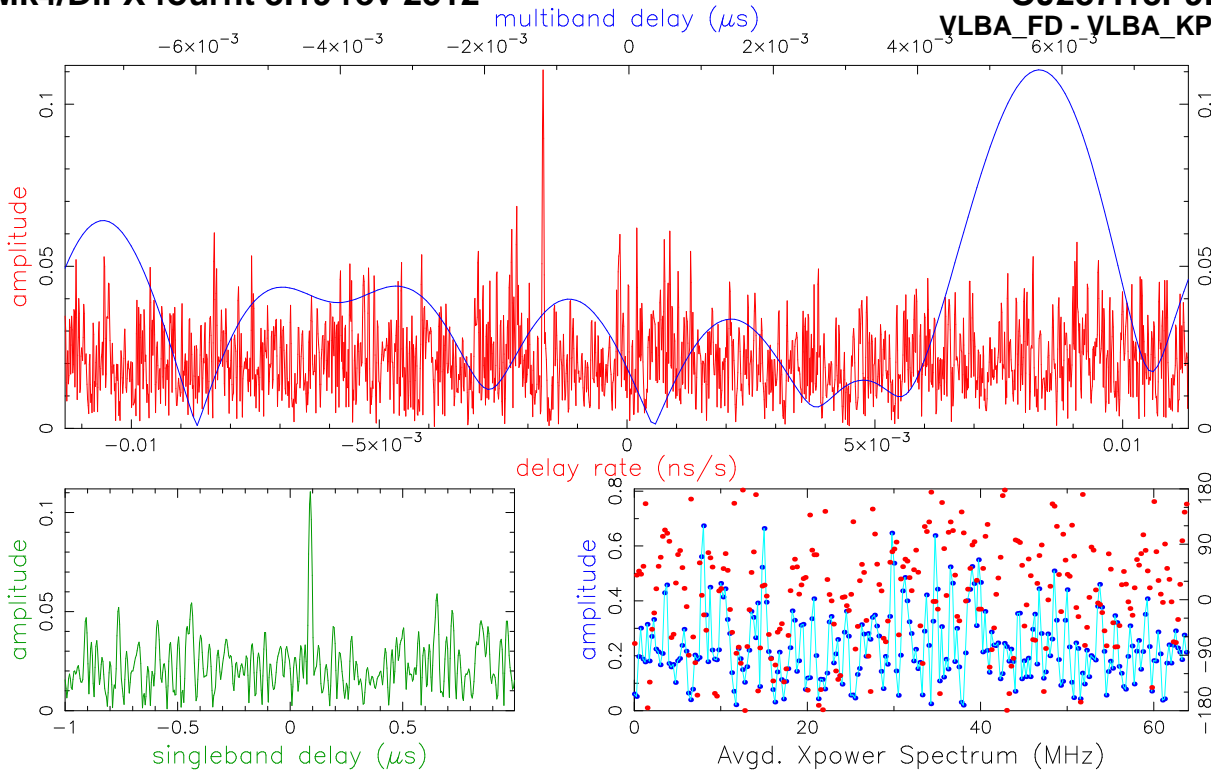


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 1.5E-08
Phase delay (usec)	-5.99567452970E-20	-5.99567452970E-20	-5.99567452970E-20	-5.99567452970E-20	-5.99567452970E-20	-5.99567452970E-20	-5.99567452970E-20	-5.99567452970E-20		+/- 6.5E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 2.6E-14
Total phase (deg)			-0.0							+/- 0.0

RMS Theor. Amplitude 10000.002 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.002 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.002 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 94.6 el 49.5 pa -66.0 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ff..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ff.W.95.18P9EC

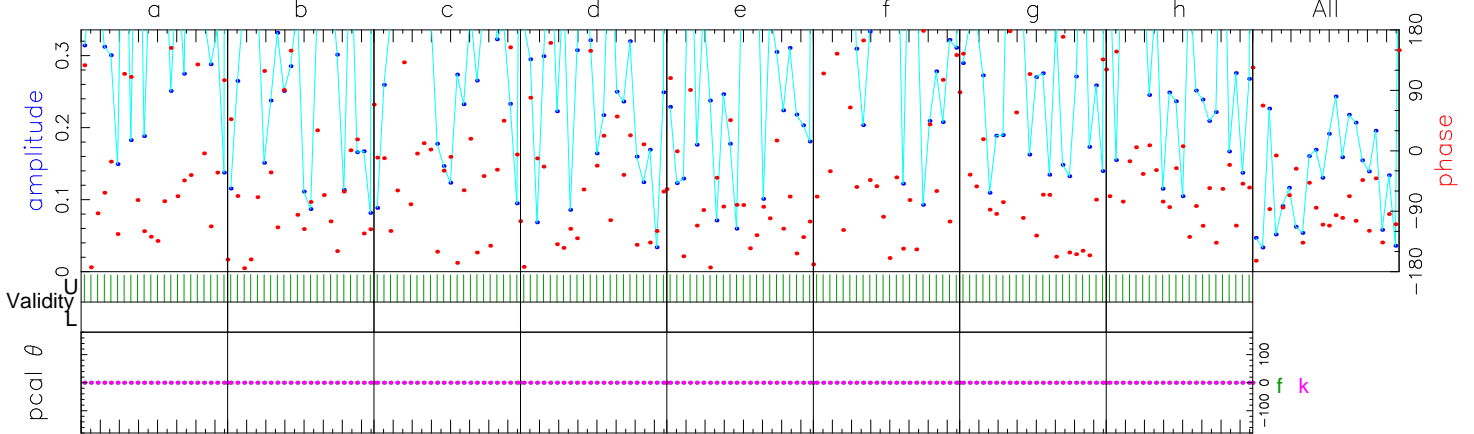
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fk
VLBA_FD - VLBA_KP, fgroup W, pol LR



Fringe quality 0
SNR 6.3
Int time 435.424
Amp 0.112
Phase -85.1
PFD 6.4e-02
Delays (us)
SBD 0.089058
MBD 0.005649
Fringe rate (Hz)
-0.146152
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120819
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

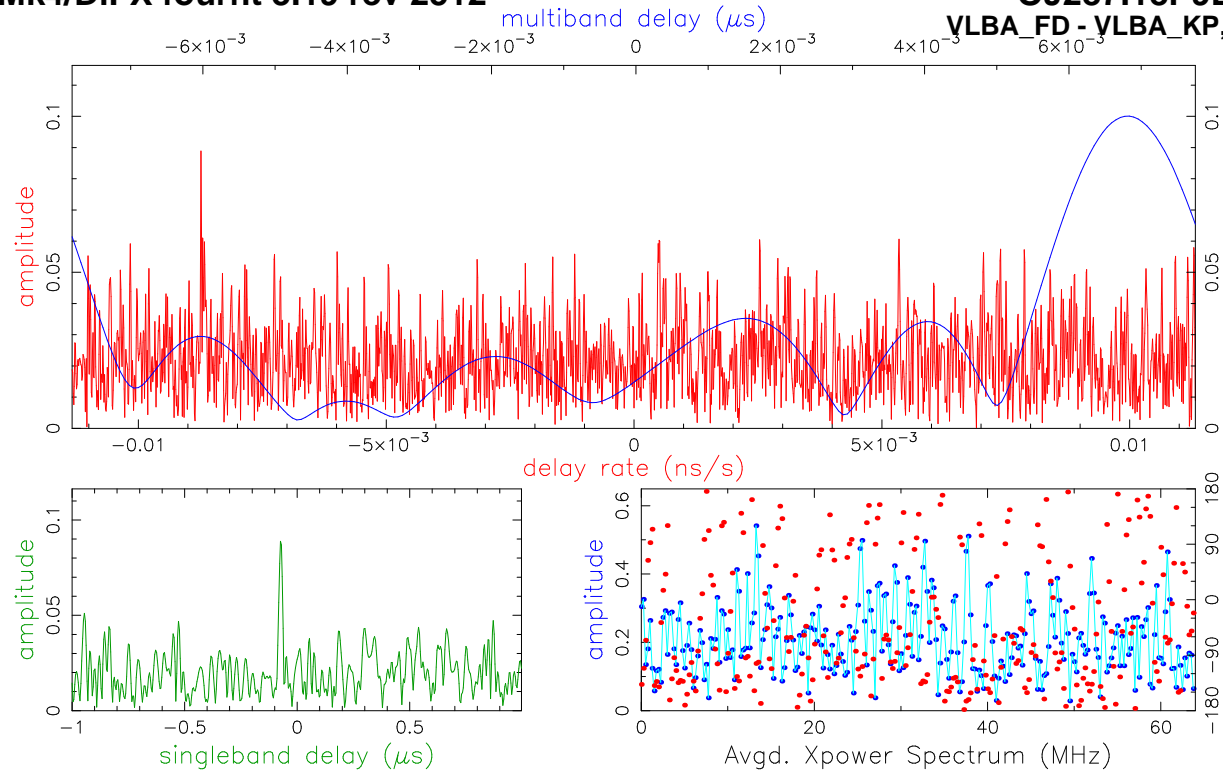


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-89.8	-88.9	-43.6	-98.9	-112.2	-96.9	-127.0	-55.0	Phase	-85.1
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	278.1	221.7	429.7	308.0	473.9	47.1	141.4	280.3	Sbd box	279.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.67521233123E+03	Apriori delay (usec)	1.67512855677E+03	Resid mbdelay (usec)	5.64946E-03	+/-	1.7E-04
Sband delay (usec)	1.67521761502E+03	Apriori clock (usec)	4.2317944E+00	Resid sbdelay (usec)	8.90583E-02	+/-	1.4E-03
Phase delay (usec)	1.67512855403E+03	Apriori clockrate (us/s)	1.0360000E-07	Resid phdelay (usec)	-2.74289E-06	+/-	5.8E-07
Delay rate (us/s)	-1.02958130091E-01	Apriori rate (us/s)	-1.02956433416E-01	Resid rate (us/s)	-1.69667E-06	+/-	2.3E-09
Total phase (deg)	231.8	Apriori accel (us/s/s)	-9.64662722644E-06	Resid phase (deg)	-85.1	+/-	18.1

	RMS	Theor.	Amplitude	0.112 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.6	43.4	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	64.2	75.8	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	30.3	25.6	Inc. seg. avg.	0.103	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	39.2	44.7	Inc. frq. avg.	0.114					

f: az 94.6 el 49.5 pa -66.0 k: az 91.6 el 42.9 pa -64.5 u,v (fr/asec) 611.769 -443.793 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fk..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fk.W.119.18P9EC

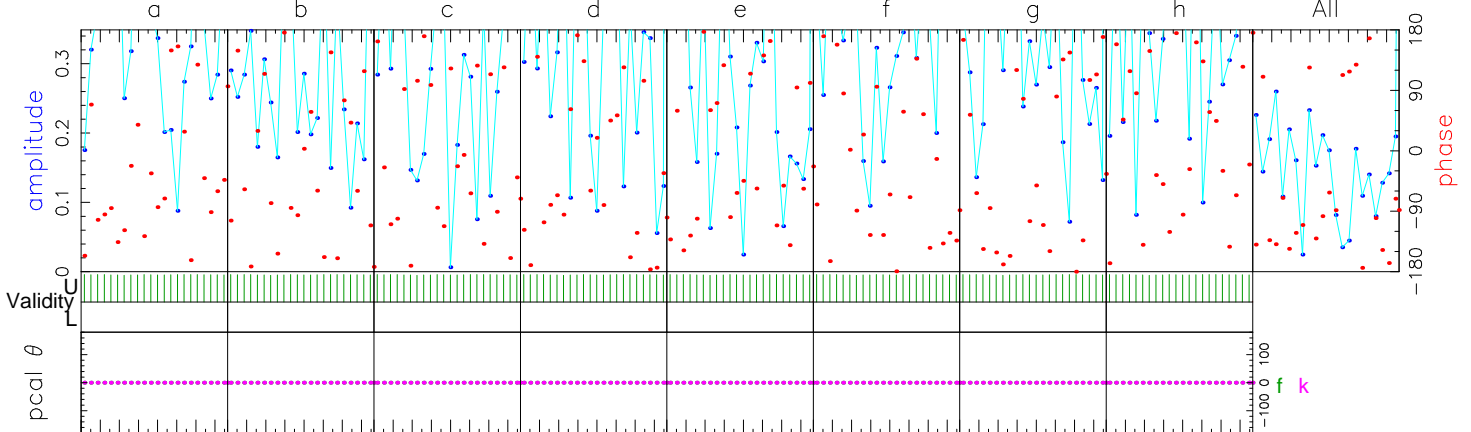


Fringe quality 0

SNR 5.1
Int time 435.424
Amp 0.116
Phase -141.8
PFD 1.0e+00
Delays (us)
SBD -0.072775
MBD -0.008301
Fringe rate (Hz)
-0.753672
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120823
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

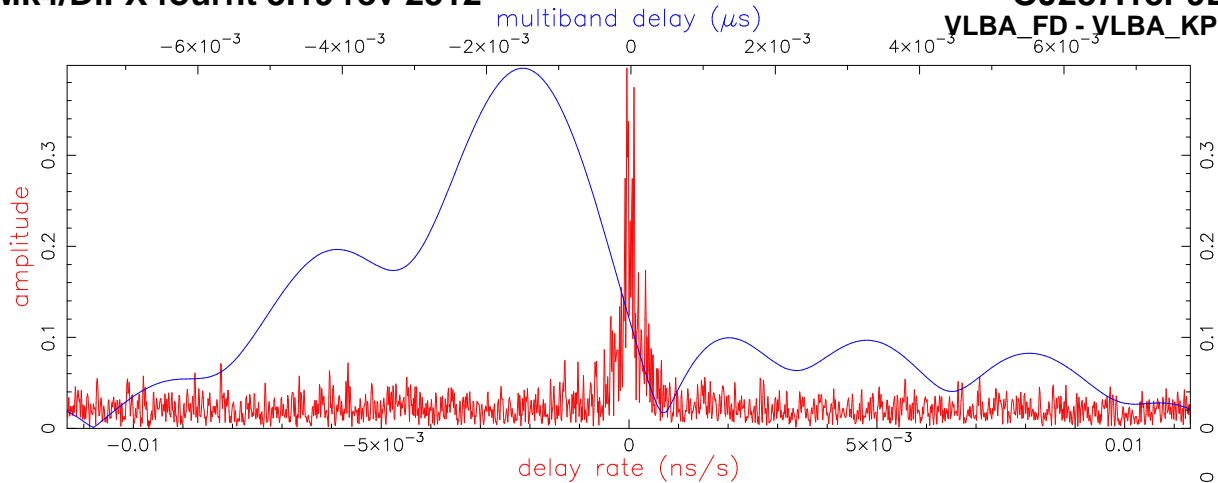
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.1	-134.3	-109.9	-151.9	-178.2	-135.8	-171.7	-174.9	Phase	-141.8
	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	103.5	297.1	13.3	301.9	14.5	119.7	468.6	395.8	Sbd box	238.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

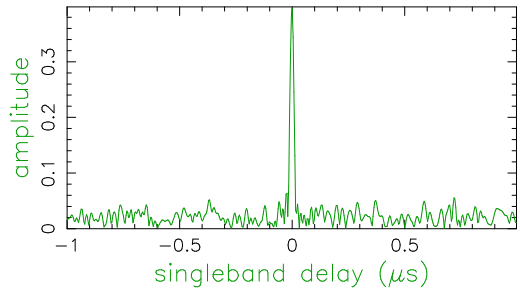
Group delay (usec)(sbd)	1.67505775599E+03	Apriori delay (usec)	1.67512855677E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	2.1E-04
Sband delay (usec)	1.67505578177E+03	Apriori clock (usec)	4.2317944E+00	Resid sbdelay (usec)	-7.27750E-02	+/-	1.7E-03
Phase delay (usec)	1.67512855220E+03	Apriori clockrate (us/s)	1.0360000E-07	Resid phdelay (usec)	-4.57214E-06	+/-	7.2E-07
Delay rate (us/s)	-1.02965182797E-01	Apriori rate (us/s)	-1.02956433416E-01	Resid rate (us/s)	-8.74938E-06	+/-	2.8E-09
Total phase (deg)	175.1	Apriori accel (us/s/s)	-9.64662722644E-06	Resid phase (deg)	-141.8	+/-	22.3

ph/seg (deg)	59.9	Theor.	53.6	Amplitude	0.116 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	101.3	Search (2048X32)	0.096	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	36.4	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	29.2	Inc. seg. avg.	0.133	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.119	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00	

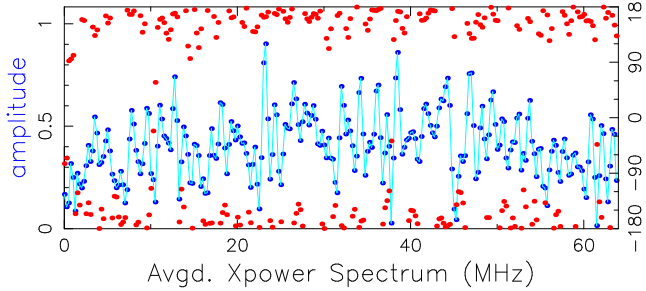


Fringe quality 8

SNR 22.8
Int time 435.424
Amp 0.399
Phase 177.0
PFD 0.0e+00
Delays (us)
SBD -0.001167
MBD -0.001502
Fringe rate (Hz)
-0.003762
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

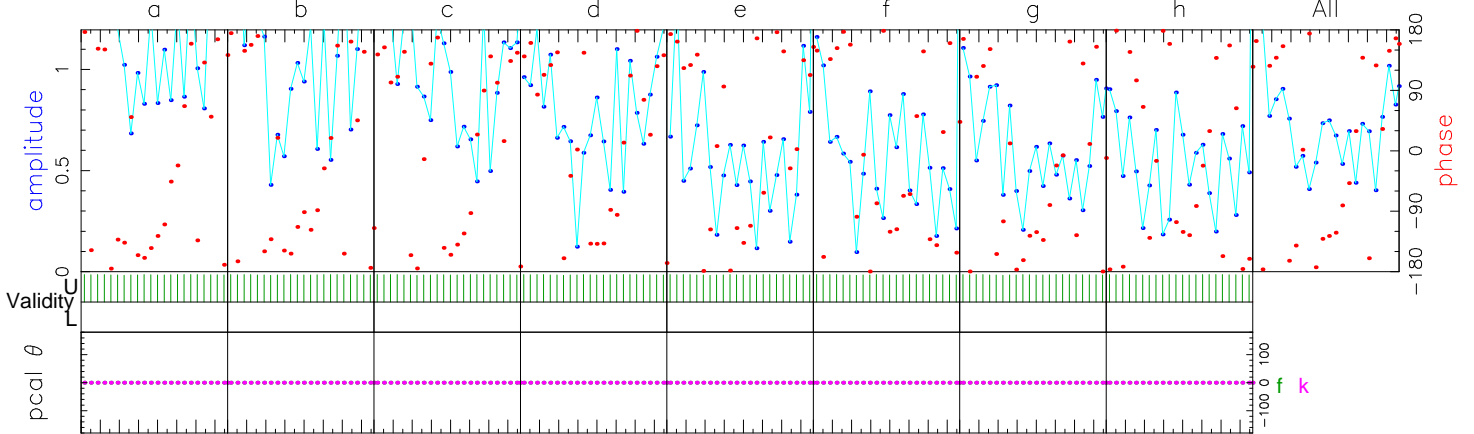


delay rate (ns/s)



Exp. c201a
Yr:day 16383
Start 2020:115
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120809
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.67512705466E+03	Apriori delay (usec)	1.67512855677E+03	Resid mbdelay (usec)	-1.50211E-03	+/-	4.8E-05
Sband delay (usec)	1.67512738977E+03	Apriori clock (usec)	4.2317944E+00	Resid sbdelay (usec)	-1.16700E-03	+/-	3.8E-04
Phase delay (usec)	1.67512856248E+03	Apriori clockrate (us/s)	1.0360000E-07	Resid phdelay (usec)	5.70771E-06	+/-	1.6E-07
Delay rate (us/s)	-1.02956477089E-01	Apriori rate (us/s)	-1.02956433416E-01	Resid rate (us/s)	-4.36727E-08	+/-	6.4E-10
Total phase (deg)	133.9	Apriori accel (us/s/s)	-9.64662722644E-06	Resid phase (deg)	177.0	+/-	5.0

ph/seg (deg)	RMS 75.1	Theor. 12.1	Amplitude Search (2048X32)	0.399 +/- 0.018	0.395	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	100.8	21.1	Interp.	0.000	0.395	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	22.2	7.1	Inc. seg. avg.	0.716	0.395	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	42.1	12.4	Inc. frq. avg.	0.416	0.395	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

f: az 94.6 el 49.5 pa -66.0

k: az 91.6 el 42.9 pa -64.5

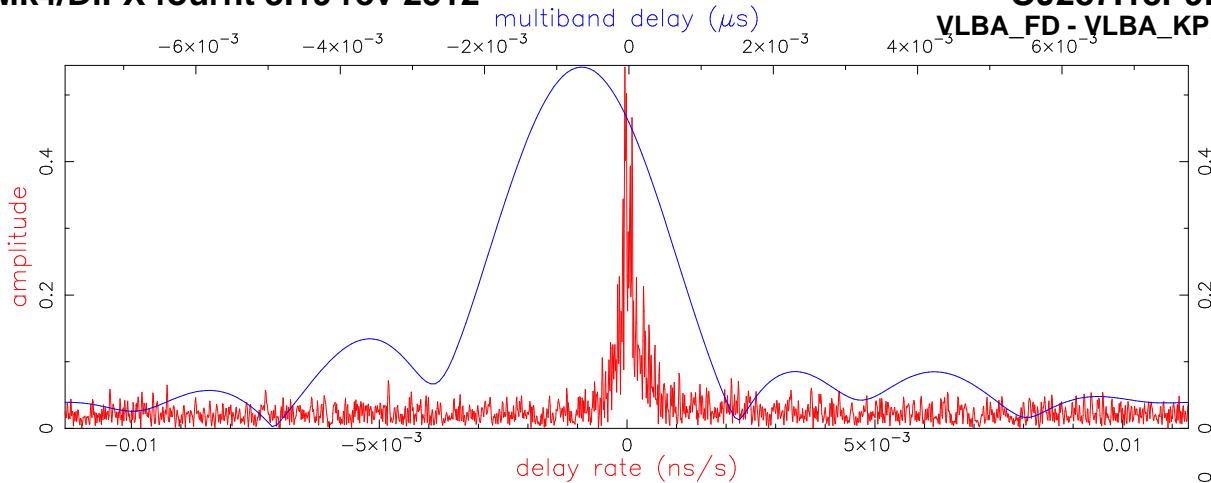
u,v (fr/asec) 611.769 -443.793

simultaneous interpolator

Control file: cf_1234_gmva

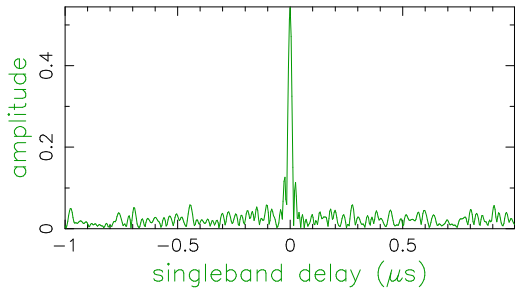
Input file: /Exps/c201a/v1/1234/No0027/fk..18P9EC

Output file: /Exps/c201a/v1/1234/No0027/fk.W.82.18P9EC

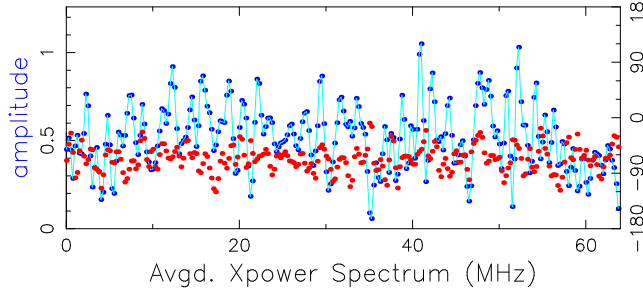


Fringe quality 7

SNR 31.1
Int time 435.424
Amp 0.544
Phase -68.3
PFD 0.0e+00
Delays (us)
SBD -0.000865
MBD -0.000677
Fringe rate (Hz)
-0.003865
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

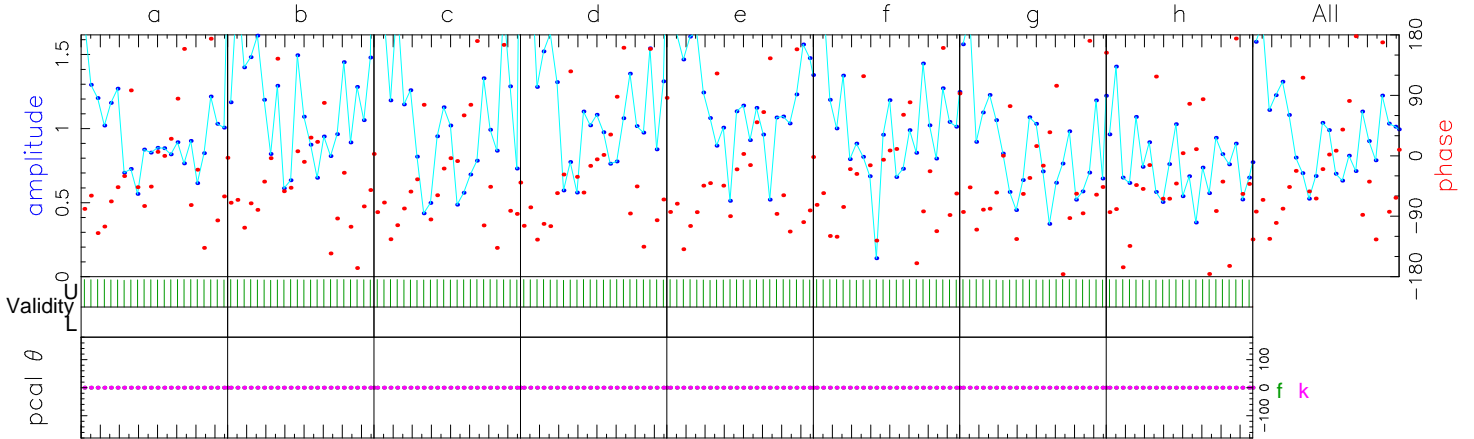


delay rate (ns/s)



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120814
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

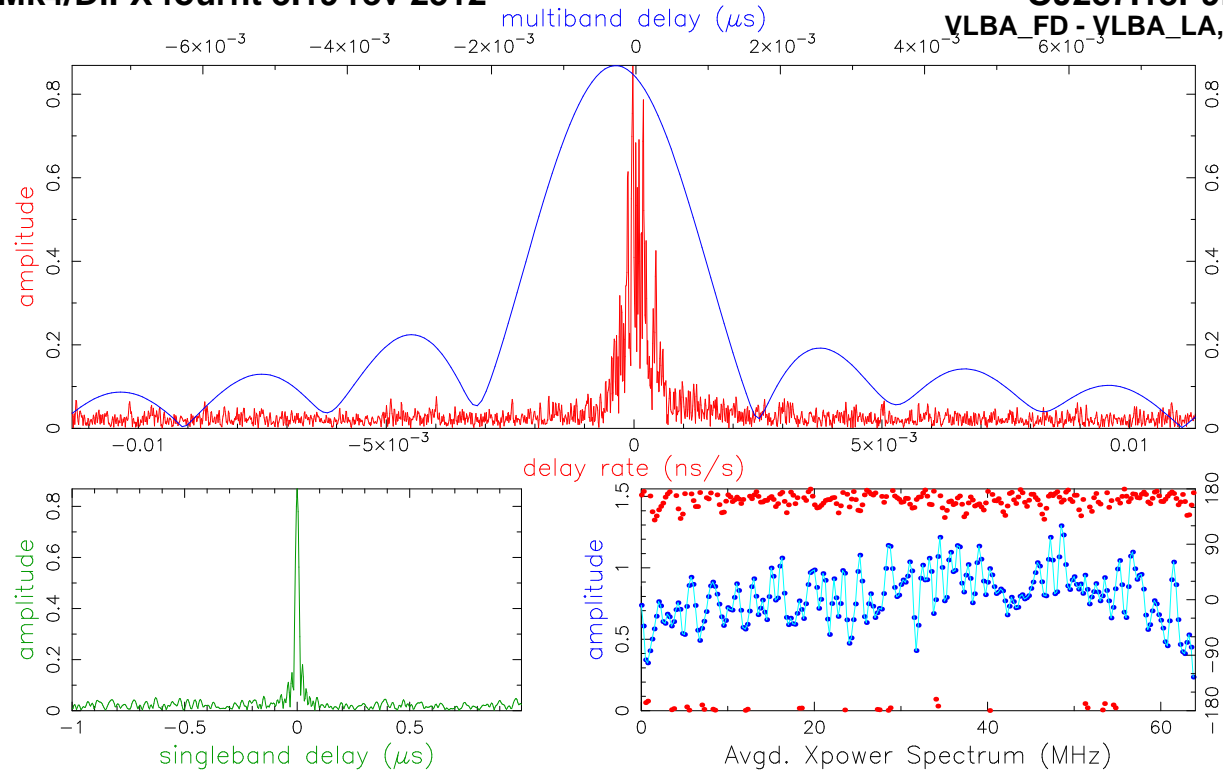
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-66.2	-57.8	-79.7	-79.3	-72.8	-60.0	-60.8	-66.6	Phase	-68.3
	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.3	Ampl.	0.5
	256.8	256.7	256.7	256.6	257.2	256.9	256.8	256.1	Sbd box	256.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.67512787991E+03		Apriori delay (usec)		1.67512855677E+03		Resid mbdelay (usec)		-6.76856E-04	+/- 3.5E-05
Sband delay (usec)	1.67512769152E+03		Apriori clock (usec)		4.2317944E+00		Resid sbdelay (usec)		-8.65250E-04	+/- 2.8E-04
Phase delay (usec)	1.67512855457E+03		Apriori clockrate (us/s)		1.0360000E-07		Resid phdelay (usec)		-2.20344E-06	+/- 1.2E-07
Delay rate (us/s)	-1.02956478289E-01		Apriori rate (us/s)		-1.02956433416E-01		Resid rate (us/s)		-4.48730E-08	+/- 4.7E-10
Total phase (deg)	248.5		Apriori accel (us/s/s)		-9.64662722644E-06		Resid phase (deg)		-68.3	+/- 3.7

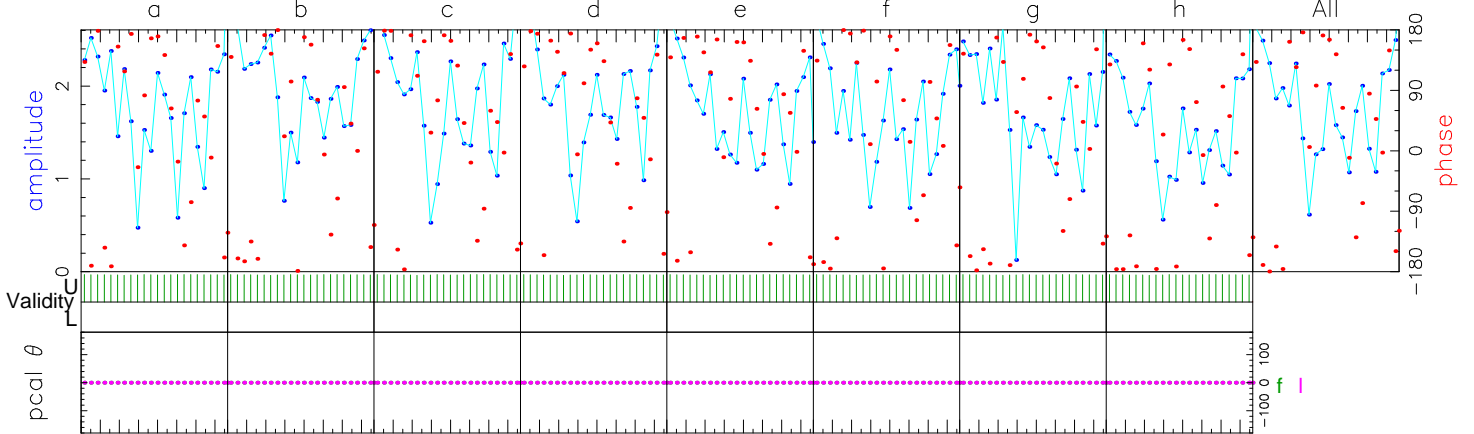
	RMS	Theor.	Amplitude	0.544 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	73.2	8.8	Search (2048X32)	0.536	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	98.3	15.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	9.2	5.2	Inc. seg. avg.	0.978	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	18.3	9.1	Inc. frq. avg.	0.545	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

f: az 94.6 el 49.5 pa -66.0 k: az 91.6 el 42.9 pa -64.5 u, v (fr/asec) 611.769 -443.793 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fk..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fk.W.99.18P9EC



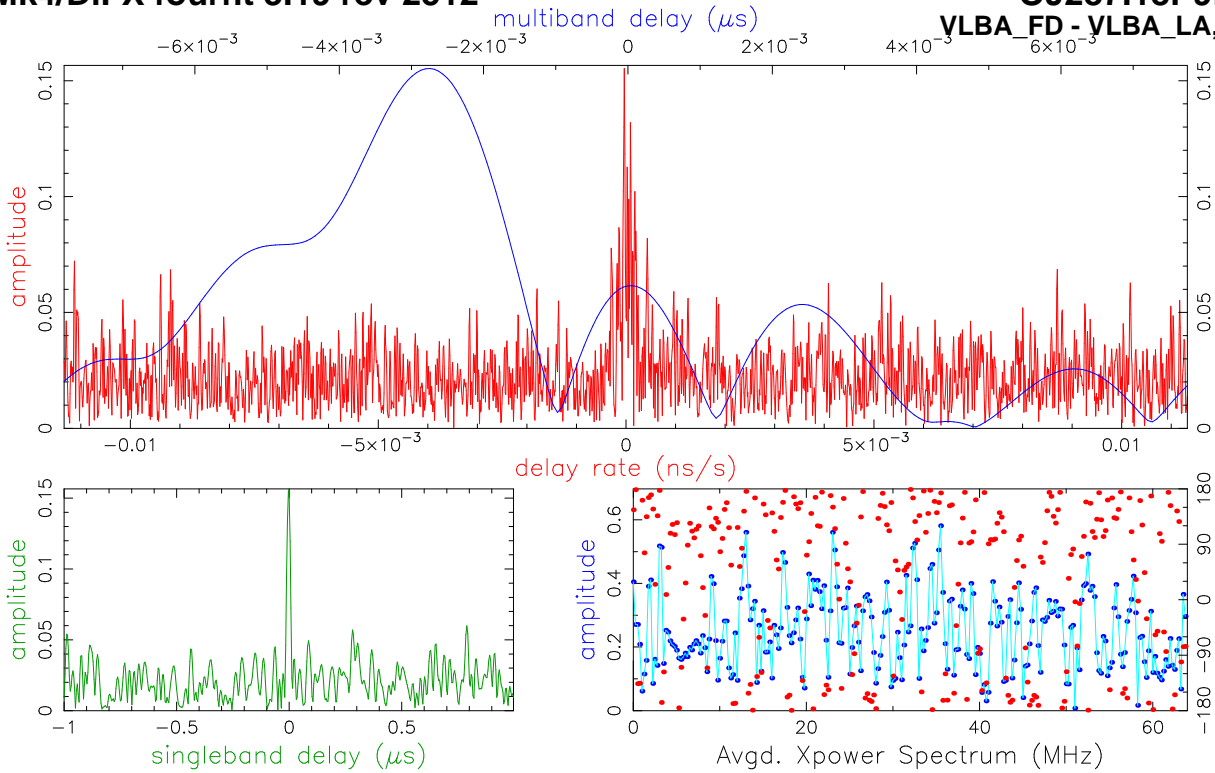
Fringe quality 5
 SNR 49.6
 Int time 435.128
 Amp 0.869
 Phase 164.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.000270
 MBD -0.000286
 Fringe rate (Hz)
 -0.002369
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120814
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



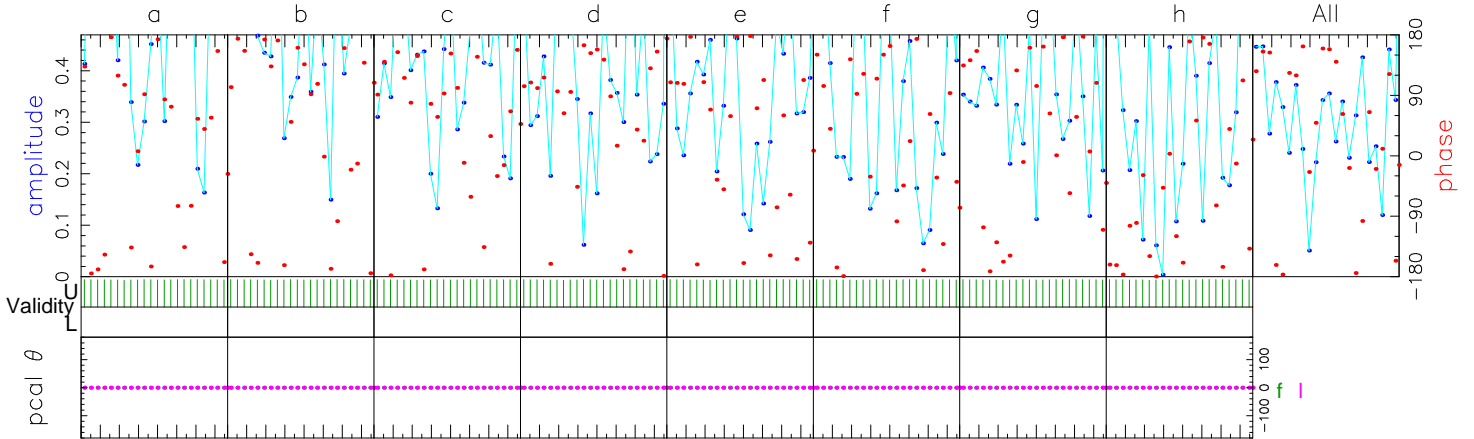
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	164.1	172.1	161.0	155.2	157.5	168.2	172.1	162.7	Phase	164.2
	0.9	0.9	0.8	0.9	0.8	0.9	0.8	0.8	Ampl.	0.9
	257.4	256.7	256.7	256.9	256.7	256.9	257.0	257.2	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.33598578284E+02		Apriori delay (usec)		6.33598864302E+02		Resid mbdelay (usec)		-2.86017E-04	+/- 2.2E-05
Sband delay (usec)	6.33598594052E+02		Apriori clock (usec)		7.5745029E+00		Resid sbdelay (usec)		-2.70250E-04	+/- 1.7E-04
Phase delay (usec)	6.33598869596E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		5.29424E-06	+/- 7.5E-08
Delay rate (us/s)	1.35222043402E-02		Apriori rate (us/s)		1.35222318393E-02		Resid rate (us/s)		-2.74991E-08	+/- 2.9E-10
Total phase (deg)	225.7		Apriori accel (us/s/s)		-6.22795766567E-06		Resid phase (deg)		164.2	+/- 2.3

ph/seg (deg) 81.6 5.5 Search (2048X32) 0.812 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 119.9 9.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.8 3.3 Inc. seg. avg. 1.763 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 5.9 5.7 Inc. frq. avg. 0.872 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -91.823 -802.433 ion window (TEC) 0.00 0.00
 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fl.W.102.18P9EC



Fringe quality 9
SNR 8.9
Int time 435.128
Amp 0.157
Phase 147.2
PFD 1.6e-10
Delays (us)
SBD -0.002678
MBD -0.002752
Fringe rate (Hz)
-0.002404
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120819
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

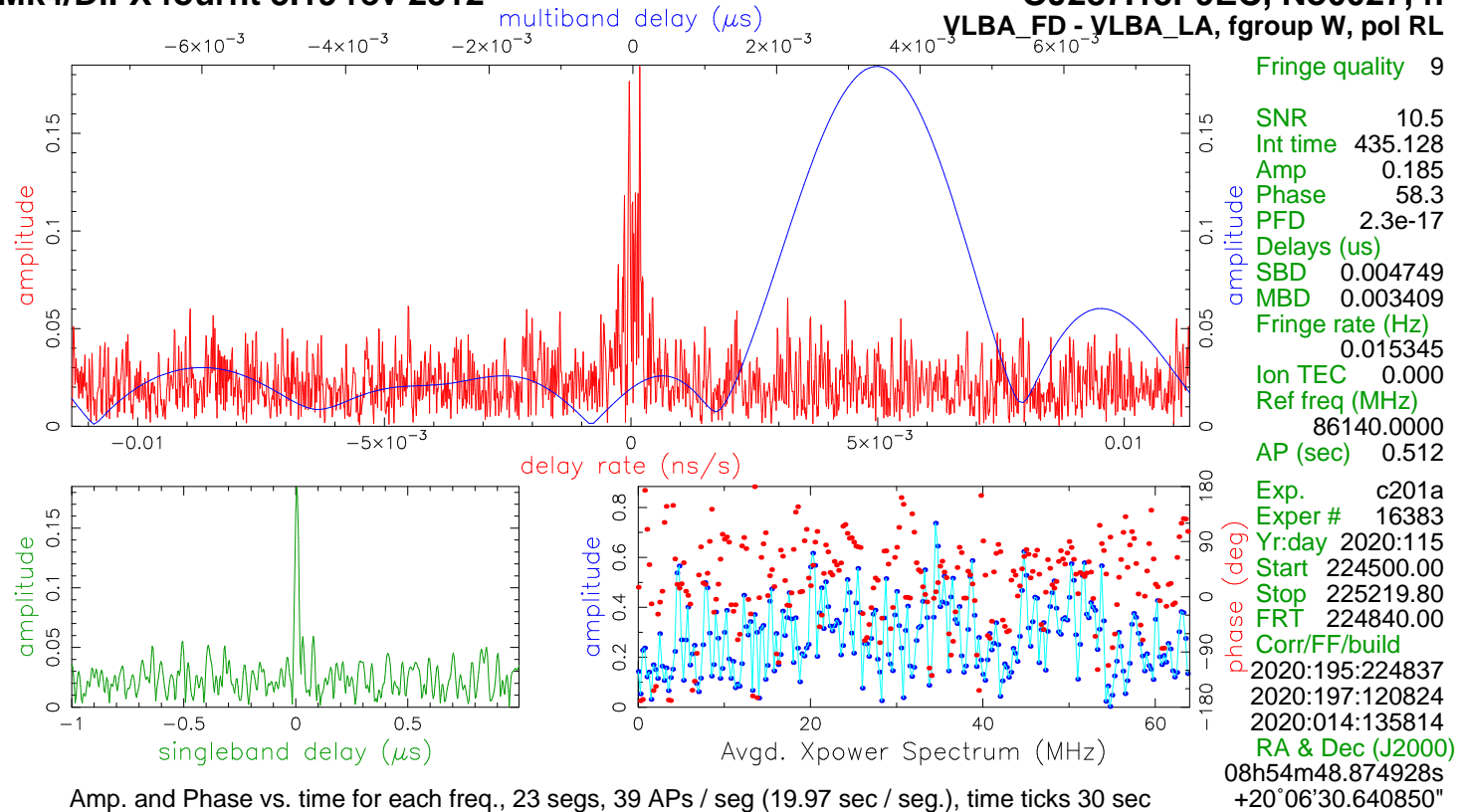
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



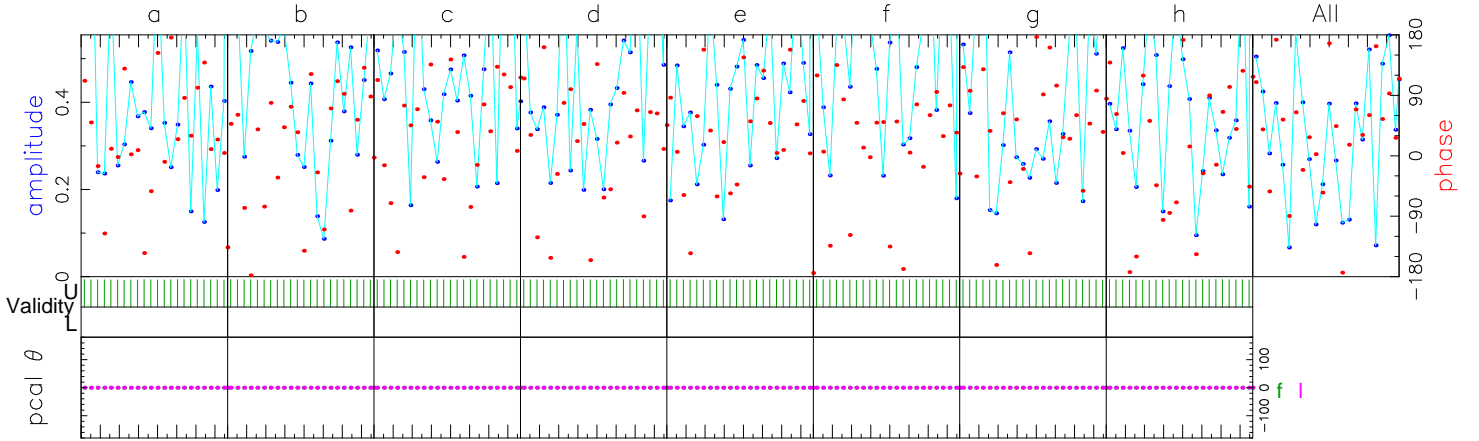
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	6.33596112128E+02	Apriori delay (usec)	6.33598864302E+02	Resid mbdelay (usec)	-2.75217E-03	+/-	1.2E-04
Sband delay (usec)	6.33596186802E+02	Apriori clock (usec)	7.5745029E+00	Resid sbdelay (usec)	-2.67750E-03	+/-	9.6E-04
Phase delay (usec)	6.33598869048E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	4.74625E-06	+/-	4.1E-07
Delay rate (us/s)	1.35222039327E-02	Apriori rate (us/s)	1.35222318393E-02	Resid rate (us/s)	-2.79065E-08	+/-	1.6E-09
Total phase (deg)	208.7	Apriori accel (us/s/s)	-6.22795766567E-06	Resid phase (deg)	147.2	+/-	12.8

ph/seg (deg)	83.3	RMS	30.8	Theor.	30.8	Amplitude	0.157 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	113.8	Search (2048X32)	0.146	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	31.2	Inc. seg. avg.	0.265	Inc. frq. avg.	0.164	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	40.5	Inc. frq. avg.	0.164	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite
f: az 94.6 el 49.5 pa -66.0		l: az 98.8 el 47.0 pa -58.5		u, v (fr/asec)	-91.823 -802.433	ion window (TEC)	0.00	0.00			simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	6.33602273633E+02	Apriori delay (usec)	6.33598864302E+02	Resid mbdelay (usec)	3.40933E-03	+/-	1.0E-04
Sband delay (usec)	6.33603613052E+02	Apriori clock (usec)	7.5745029E+00	Resid sbdelay (usec)	4.74875E-03	+/-	8.2E-04
Phase delay (usec)	6.33598866181E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	1.87889E-06	+/-	3.5E-07
Delay rate (us/s)	1.35224099763E-02	Apriori rate (us/s)	1.35222318393E-02	Resid rate (us/s)	1.78137E-07	+/-	1.4E-09
Total phase (deg)	119.8	Apriori accel (us/s/s)	-6.22795766567E-06	Resid phase (deg)	58.3	+/-	10.9

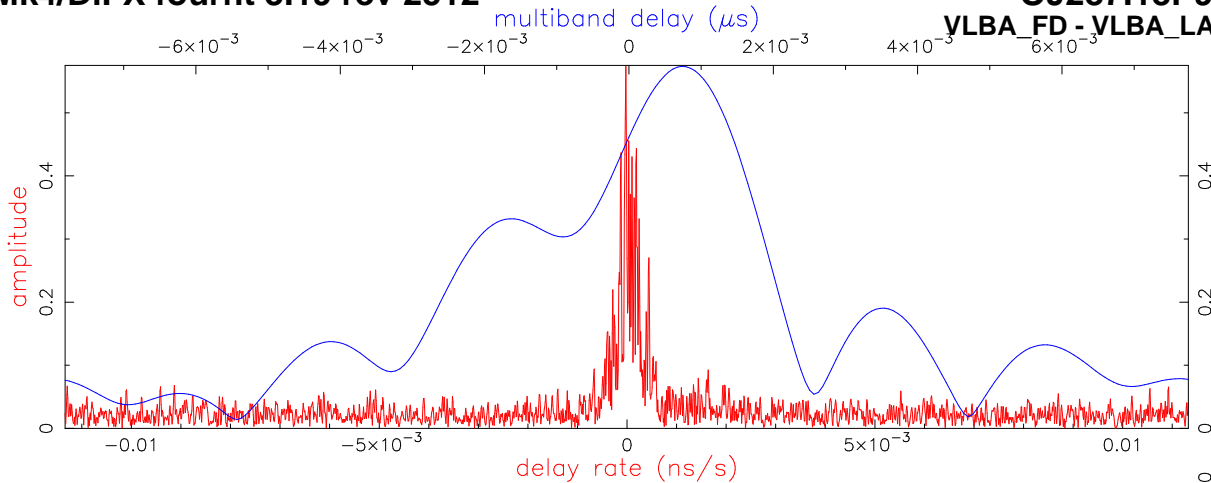
ph/seg (deg)	RMS 73.1	Theor. 26.1	Amplitude Search (2048X32)	0.185 +/- 0.018	0.182	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	111.3	45.5	Interp.	0.000	0.182	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	10.5	15.4	Inc. seg. avg.	0.293	0.182	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	28.9	26.8	Inc. frq. avg.	0.180	0.182	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

f: az 94.6 el 49.5 pa -66.0 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -91.823 -802.433 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fl.W.142.18P9EC

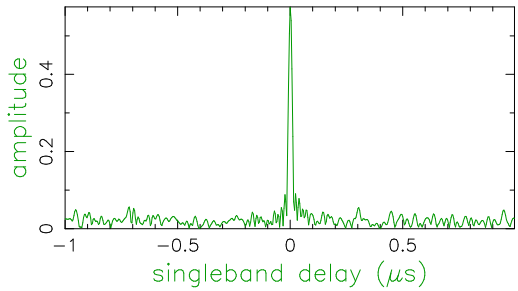
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fl
VLBA_FD - VLBA_LA, fgroup W, pol LL

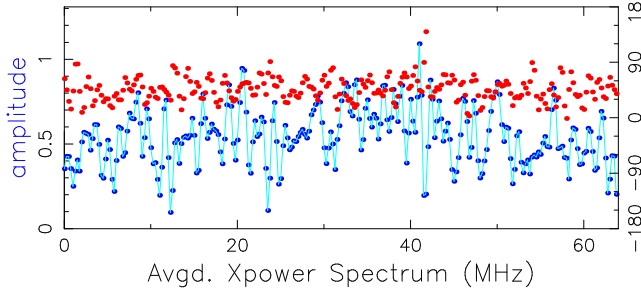


Fringe quality 4

SNR 32.8
Int time 435.128
Amp 0.575
Phase 44.8
PFD 0.0e+00
Delays (us)
SBD 0.000664
MBD 0.000759
Fringe rate (Hz)
-0.002362
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

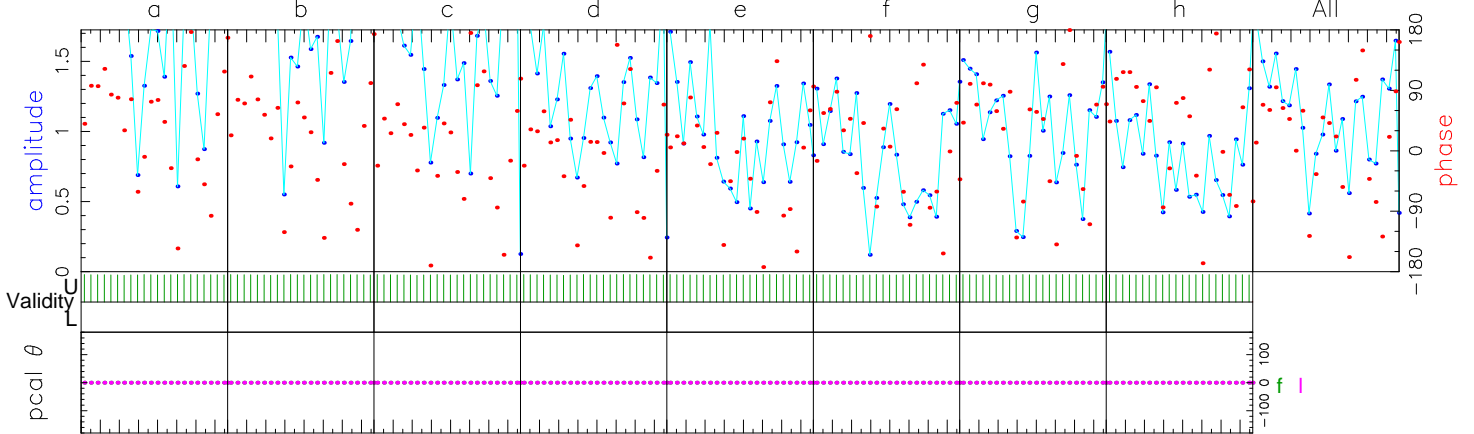


delay rate (ns/s)



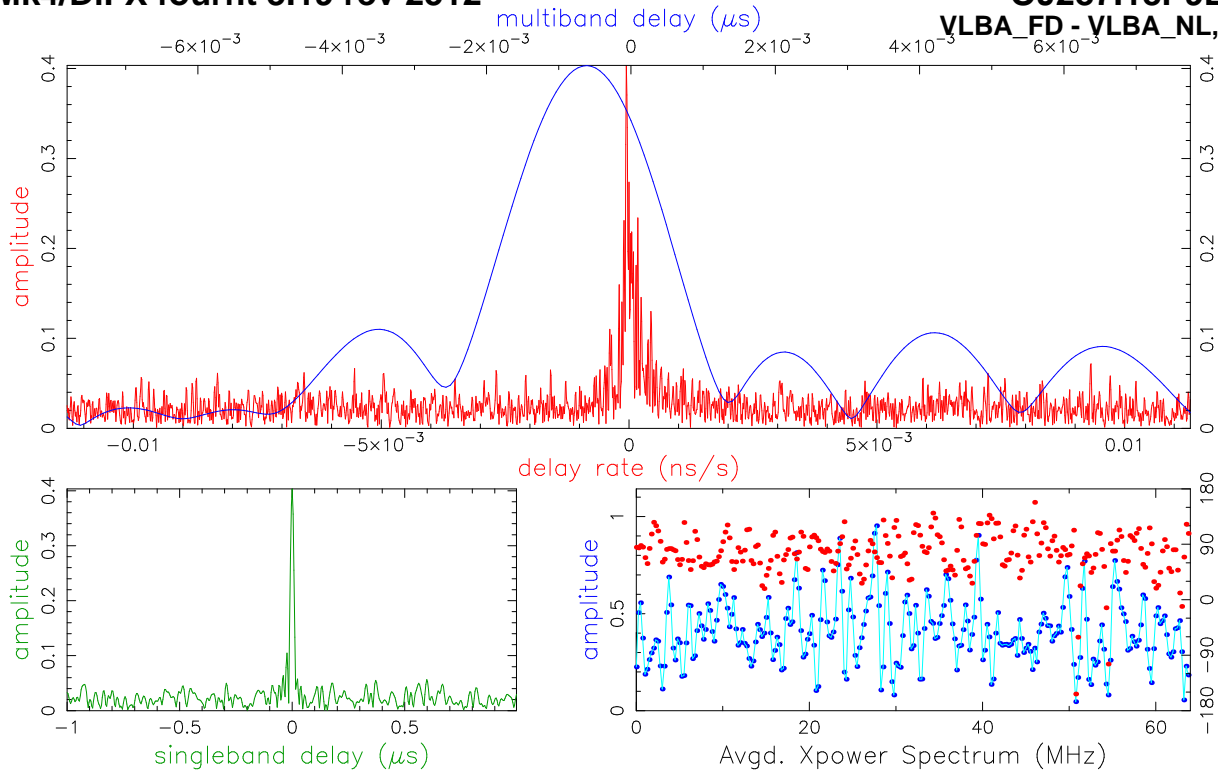
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120810
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	6.33599623034E+02		Apriori delay (usec)		6.33598864302E+02		Resid mbdelay (usec)		7.58733E-04	+/- 3.3E-05
Sband delay (usec)	6.33599528052E+02		Apriori clock (usec)		7.5745029E+00		Resid sbdelay (usec)		6.63750E-04	+/- 2.6E-04
Phase delay (usec)	6.33598865746E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		1.44483E-06	+/- 1.1E-07
Delay rate (us/s)	1.35222044202E-02		Apriori rate (us/s)		1.35222318393E-02		Resid rate (us/s)		-2.74191E-08	+/- 4.4E-10
Total phase (deg)	106.3		Apriori accel (us/s/s)		-6.22795766567E-06		Resid phase (deg)		44.8	+/- 3.5

ph/seg (deg) 81.7 8.4 Search (2048X32) 0.532 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 117.9 14.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 31.0 4.9 Inc. seg. avg. 1.147 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.4 8.6 Inc. frq. avg. 0.636 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 94.6 el 49.5 pa -66.0 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -91.823 -802.433 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fl.W.84.18P9EC simultaneous interpolator

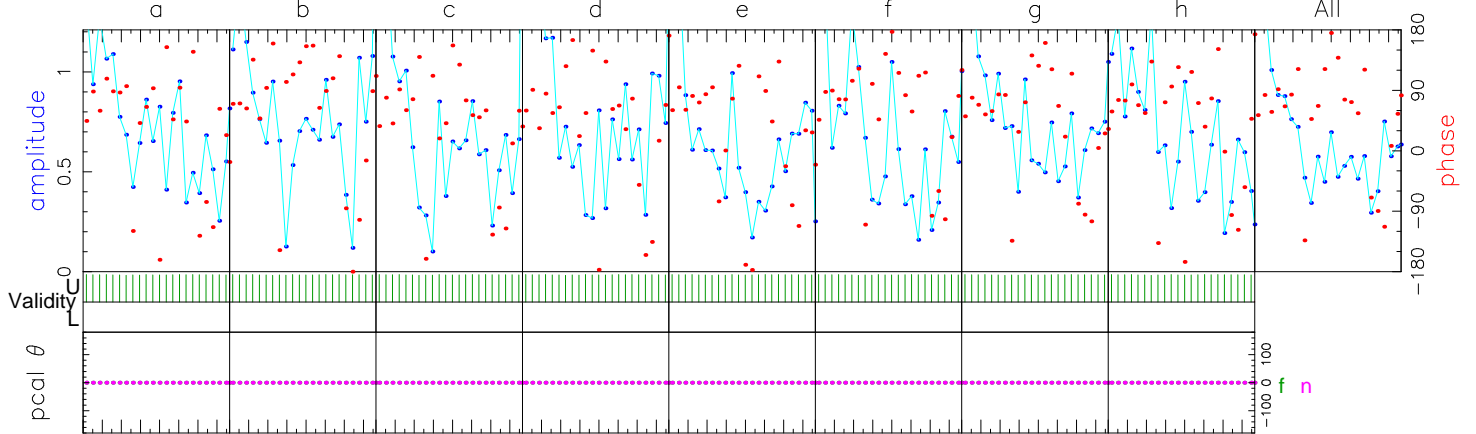


Fringe quality 9

SNR 23.0
Int time 434.901
Amp 0.403
Phase 80.6
PFD 0.0e+00
Delays (us)
SBD -0.000464
MBD -0.000626
Fringe rate (Hz)
-0.005125
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120815
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

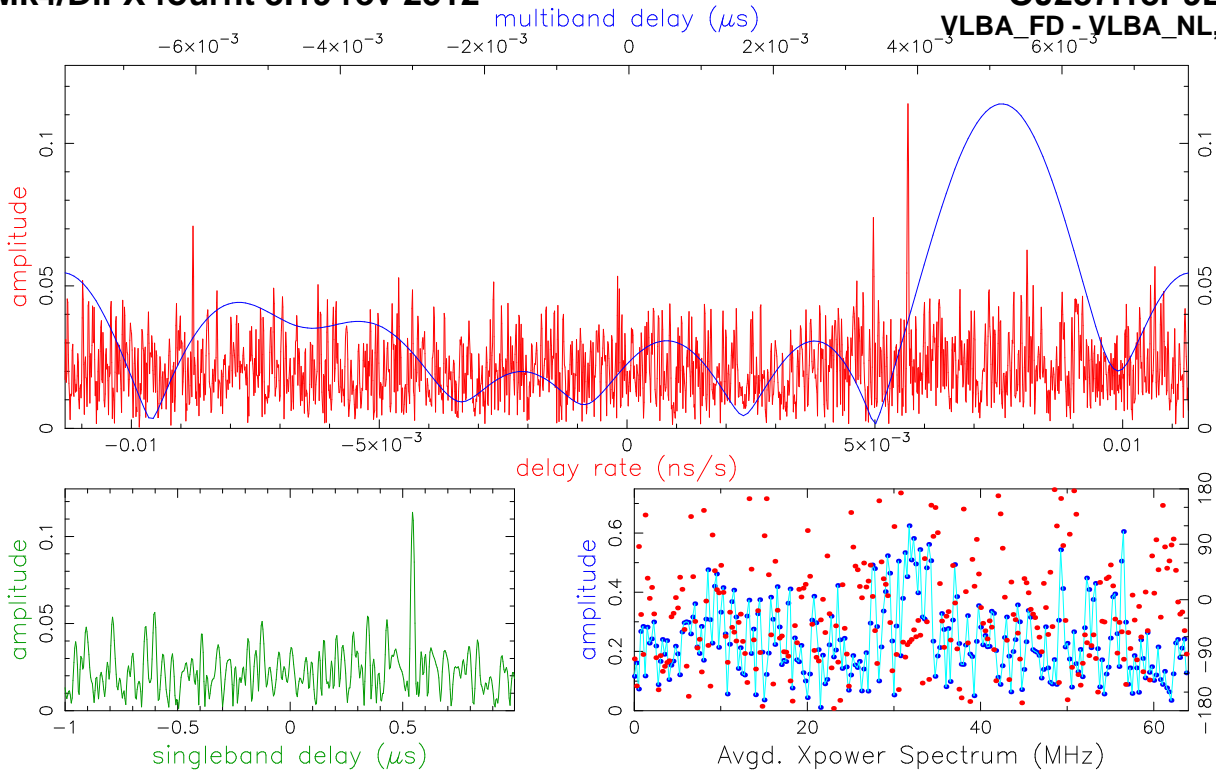


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.37299837733E+03				-1.37299775173E+03				Resid mbdelay (usec)	-6.25602E-04 +/- 4.7E-05
Sband delay (usec)	-1.37299821598E+03				-2.8362896E+01				Resid sbdelay (usec)	-4.64250E-04 +/- 3.7E-04
Phase delay (usec)	-1.37299774913E+03				-2.2499998E-07				Resid phdelay (usec)	2.59942E-06 +/- 1.6E-07
Delay rate (us/s)	3.01782392774E-01				3.01782452267E-01				Resid rate (us/s)	-5.94933E-08 +/- 6.3E-10
Total phase (deg)			-39.6		1.10546039328E-06				Resid phase (deg)	80.6 +/- 5.0

ph/seg (deg) 76.1 11.9 Search (2048X32) 0.395 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 97.0 20.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 15.9 7.0 Inc. seg. avg. 0.660 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.3 12.3 Inc. frq. avg. 0.412 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1835.632 -1260.382 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fn.W.106.18P9EC simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fn
VLBA_FD - VLBA_NL, fgroup W, pol LR

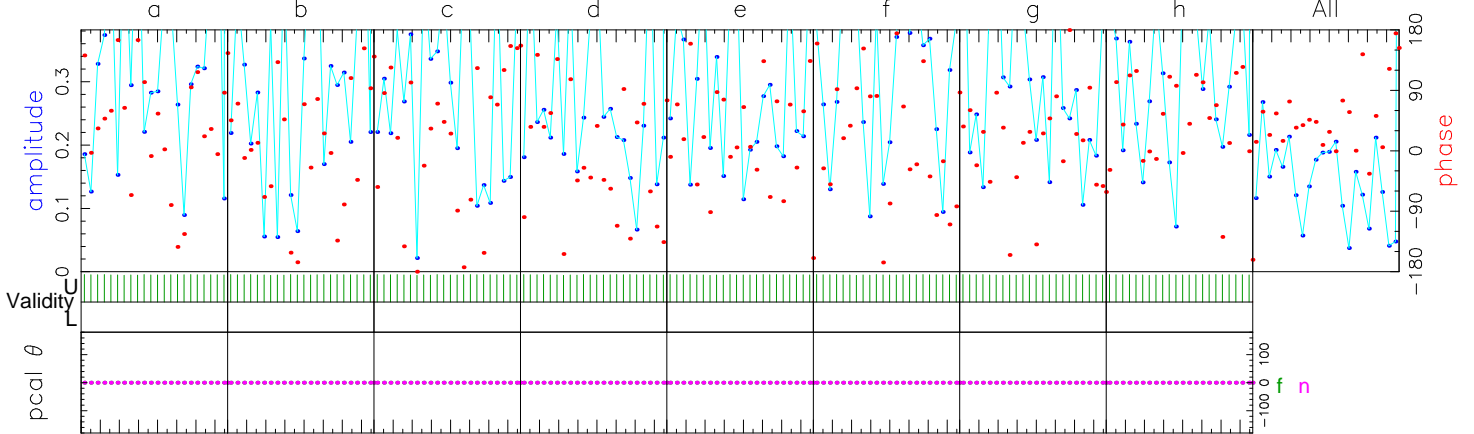


Fringe quality 0

SNR 6.5
Int time 434.901
Amp 0.127
Phase 38.3
PFD 1.8e-02
Delays (us)
SBD 0.544023
MBD 0.005175
Fringe rate (Hz)
0.489066
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120819
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

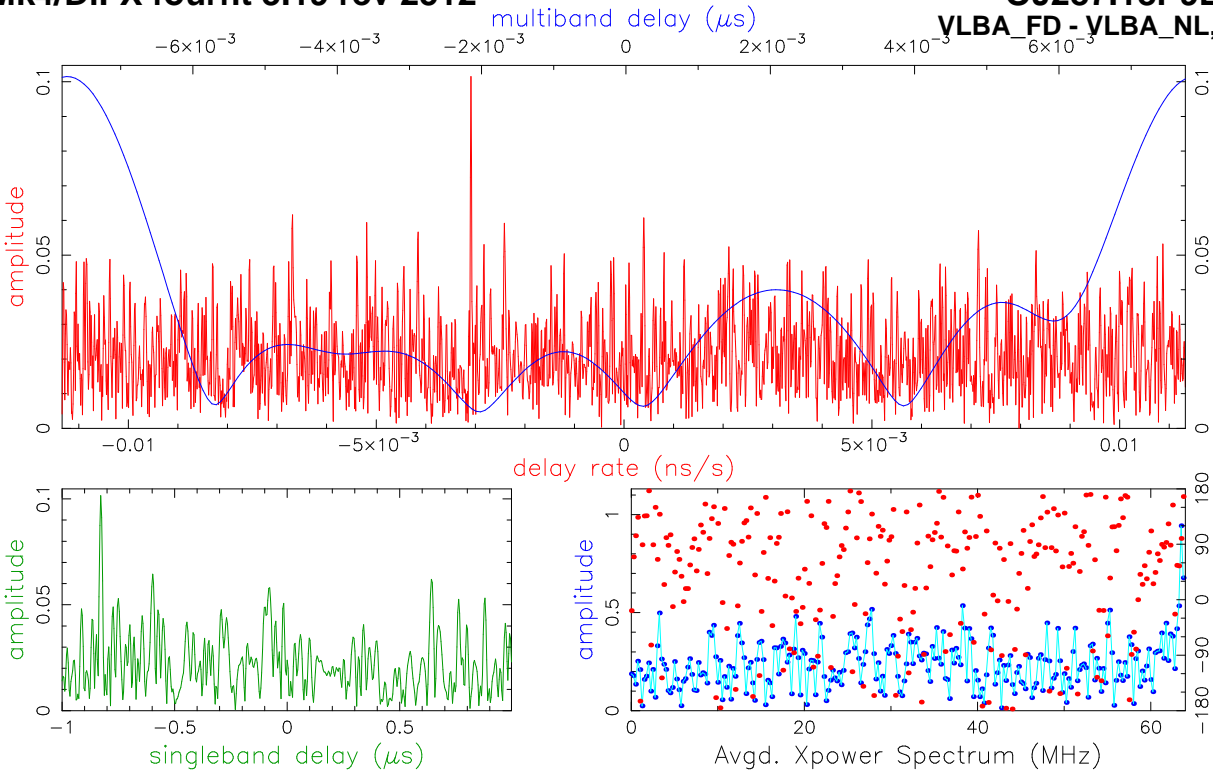


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.37246132672E+03								5.17501E-03	+/- 1.7E-04
Sband delay (usec)	-1.37245372873E+03								5.44023E-01	+/- 1.3E-03
Phase delay (usec)	-1.37299775049E+03								1.23623E-06	+/- 5.7E-07
Delay rate (us/s)	3.01788129842E-01								5.67758E-06	+/- 2.2E-09
Total phase (deg)			-81.9						38.3	+/- 17.5
Apriori delay (usec)					-1.37299775173E+03					
Apriori clock (usec)					-2.8362896E+01					
Apriori clockrate (us/s)					-2.2499998E-07					
Apriori rate (us/s)					3.01782452267E-01					
Apriori accel (us/s/s)					1.10546039328E-06					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 48.9 42.0 Search (2048X32) 0.113 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.2 73.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.5 24.8 Inc. seg. avg. 0.124 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.4 43.3 Inc. frq. avg. 0.122 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1835.632 -1260.382 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fn.W.121.18P9EC

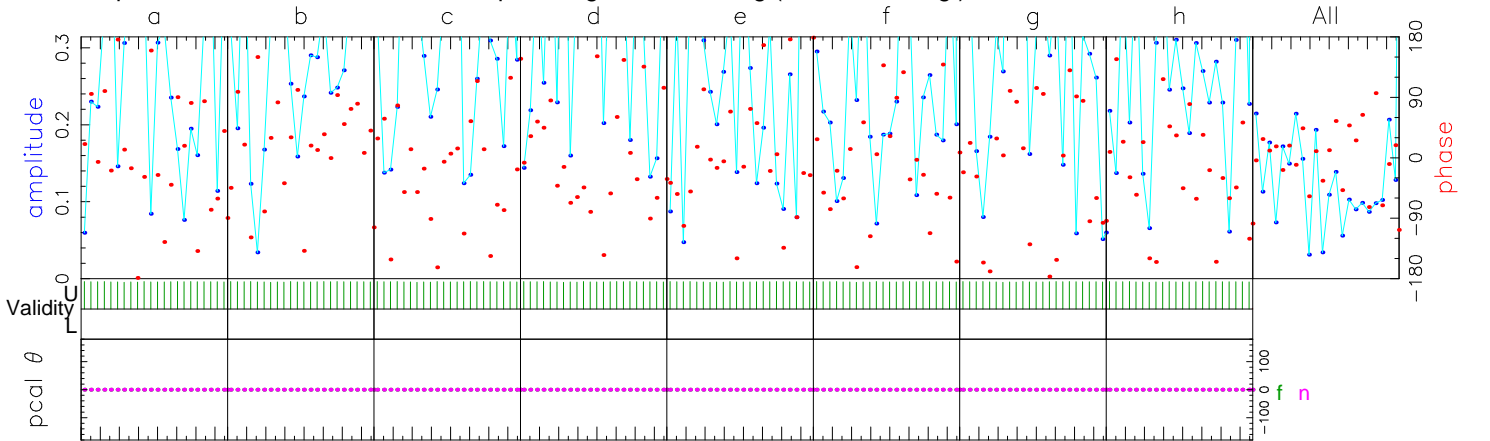
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fn
VLBA_FD - VLBA_NL, fgroup W, pol RL



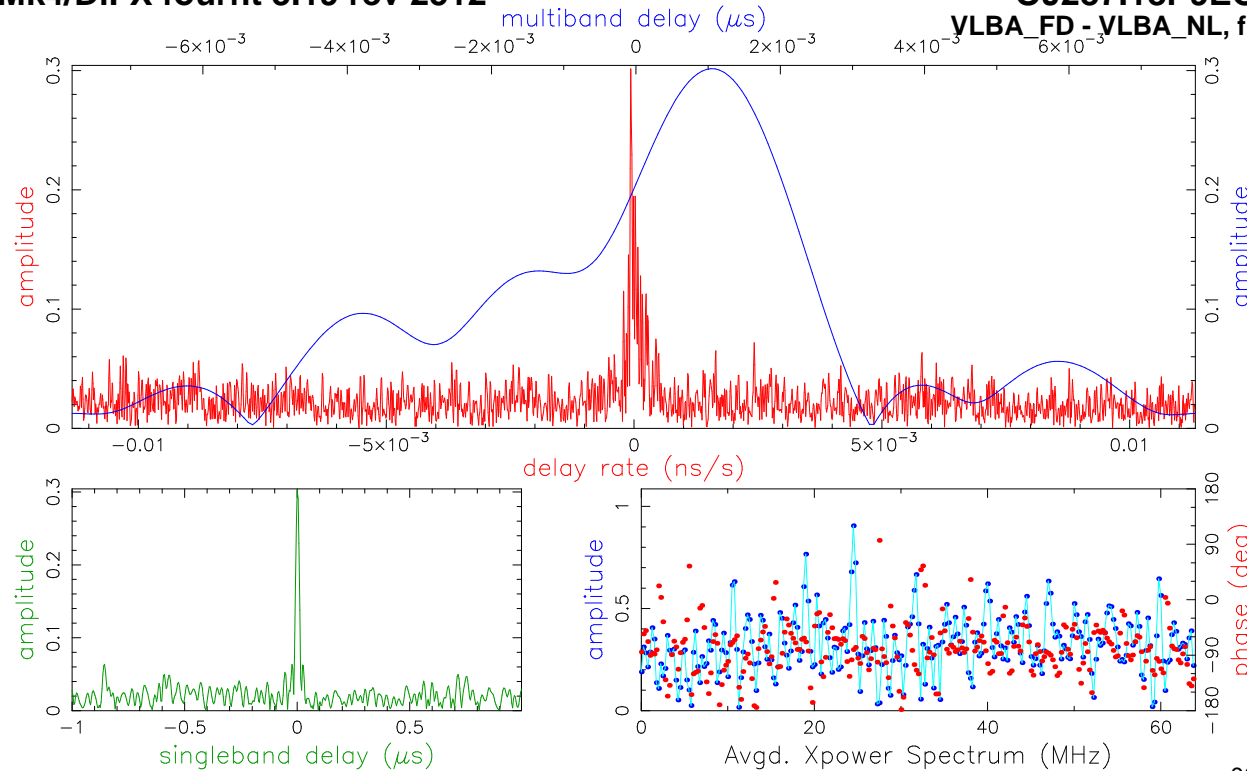
Fringe quality 0
SNR 5.8
Int time 434.901
Amp 0.105
Phase 9.0
PFD 8.2e-01
Delays (us)
SBD -0.827840
MBD -0.007733
Fringe rate (Hz)
-0.266389
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120823
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-3.3	33.1	-6.0	6.3	-9.8	-12.4	61.9	-0.5	Phase	9.0
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	96.6	45.6	23.7	100.7	217.6	441.0	399.8	421.1	Sbd box	45.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.37381798433E+03		Apriori delay (usec)		-1.37299775173E+03		Resid mbdelay (usec)		-7.73260E-03	+/- 1.9E-04
Sband delay (usec)	-1.37382559148E+03		Apriori clock (usec)		-2.8362896E+01		Resid sbdelay (usec)		-8.27840E-01	+/- 1.5E-03
Phase delay (usec)	-1.37299775144E+03		Apriori clockrate (us/s)		-2.2499998E-07		Resid phdelay (usec)		2.91566E-07	+/- 6.4E-07
Delay rate (us/s)	3.01779359750E-01		Apriori rate (us/s)		3.01782452267E-01		Resid rate (us/s)		-3.09252E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.10546039328E-06		Resid phase (deg)		9.0	+/- 19.8

ph/seg (deg) 43.1 47.4 Search (2048X32) 0.097 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.5 82.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.9 28.0 Inc. seg. avg. 0.096 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.0 48.8 Inc. frq. avg. 0.102 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1835.632 -1260.382 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fn.W.139.18P9EC simultaneous interpolator

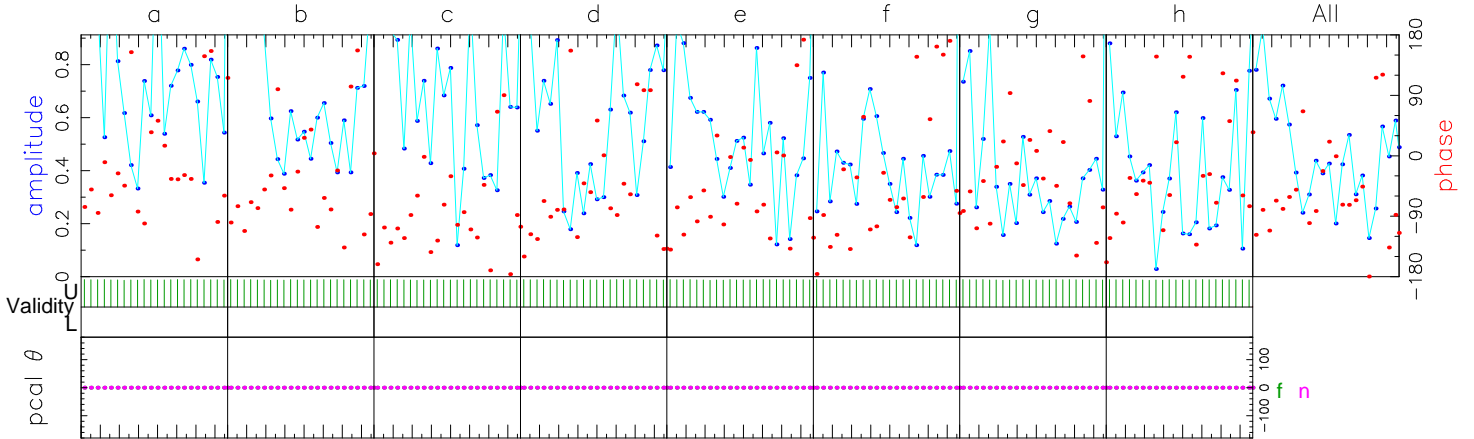


Fringe quality 7

SNR 17.4
Int time 434.901
Amp 0.304
Phase -78.6
PFD 0.0e+00
Delays (us)
SBD 0.001234
MBD 0.001079
Fringe rate (Hz)
-0.005426
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120810
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



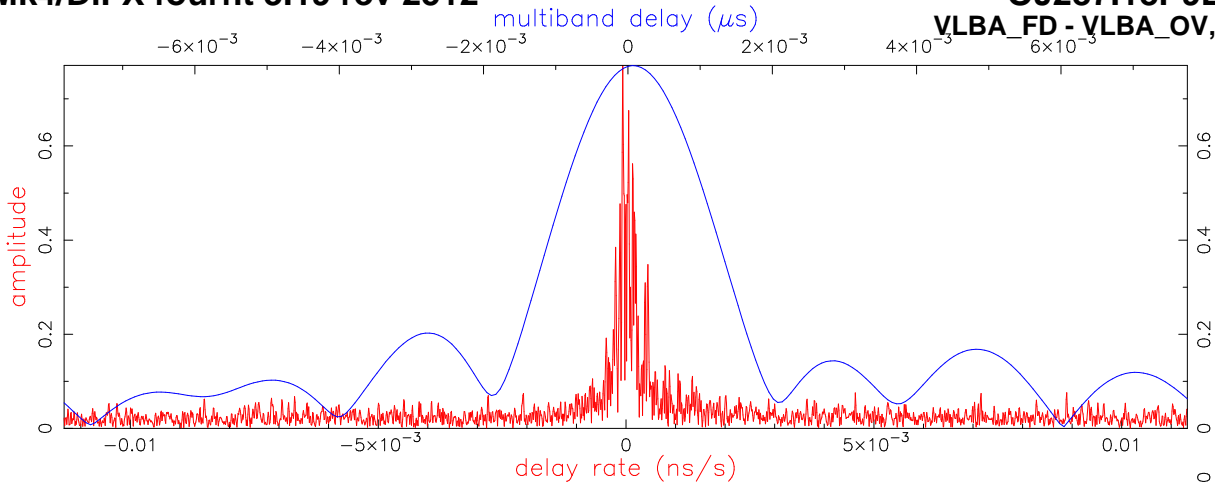
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.37299667223E+03	Apriori delay (usec)	-1.37299775173E+03	Resid mbdelay (usec)	1.07950E-03	+/-	6.3E-05
Sband delay (usec)	-1.37299651773E+03	Apriori clock (usec)	-2.8362896E+01	Resid sbdelay (usec)	1.23400E-03	+/-	5.0E-04
Phase delay (usec)	-1.37299775426E+03	Apriori clockrate (us/s)	-2.2499998E-07	Resid phdelay (usec)	-2.53569E-06	+/-	2.1E-07
Delay rate (us/s)	3.01782389280E-01	Apriori rate (us/s)	3.01782452267E-01	Resid rate (us/s)	-6.29872E-08	+/-	8.4E-10
Total phase (deg)	-198.9	Apriori accel (us/s/s)	1.10546039328E-06	Resid phase (deg)	-78.6	+/-	6.6

ph/seg (deg)	71.4	Theor.	15.8	Amplitude	0.304 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	84.0	Search (2048X32)	0.292	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.4	Inc. seg. avg.	0.454	Inc. frq. avg.	0.317	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.0	Inc. frq. avg.	0.317			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

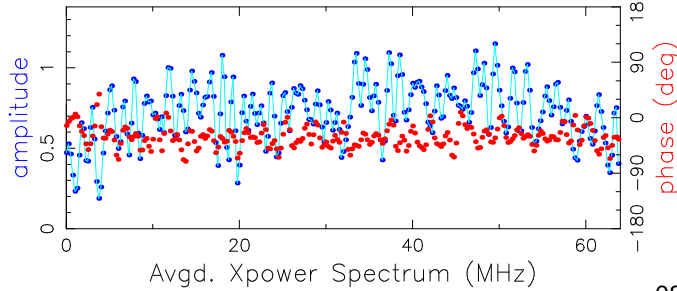
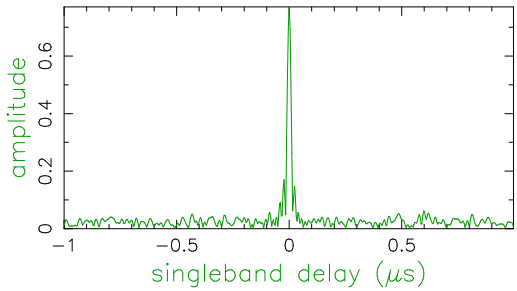
f: az 94.6 el 49.5 pa -66.0 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1835.632 -1260.382 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fn...18P9EC Output file: /Exps/c201a/v1/1234/No0027/fn.W.85.18P9EC



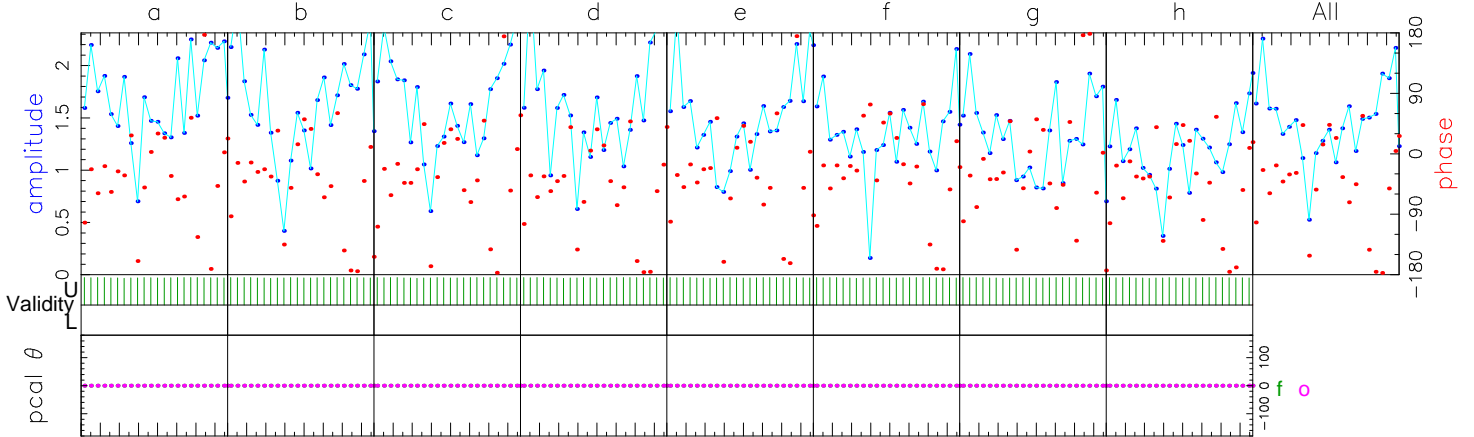
Fringe quality 7

SNR 44.0
Int time 435.404
Amp 0.771
Phase -35.4
PFD 0.0e+00
Delays (us)
SBD -0.000280
MBD 0.000066
Fringe rate (Hz)
-0.006010
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120815
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



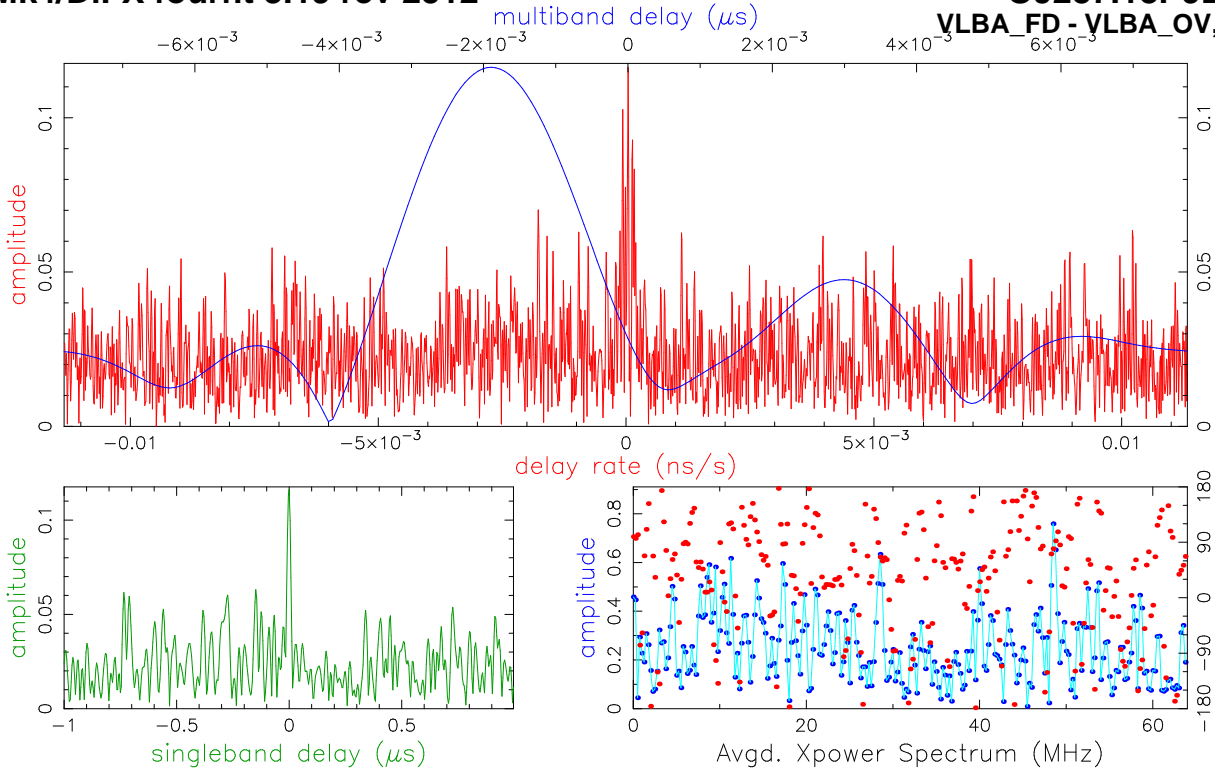
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-37.1	-30.4	-36.1	-44.7	-38.0	-15.8	-43.5	-35.5	Phase	-35.4
	0.9	0.9	0.8	0.9	0.7	0.7	0.7	0.6	Ampl.	0.8
	257.1	256.7	257.0	257.0	257.0	256.9	257.3	256.7	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.26141421760E+03		Apriori delay (usec)		3.26141415207E+03		Resid mbdelay (usec)		6.55280E-05	+/- 2.5E-05
Sband delay (usec)	3.26141387207E+03		Apriori clock (usec)		-1.6178593E+01		Resid sbdelay (usec)		-2.80000E-04	+/- 2.0E-04
Phase delay (usec)	3.26141415093E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		-1.13999E-06	+/- 8.4E-08
Delay rate (us/s)	-1.25326272186E-01		Apriori rate (us/s)		-1.25326202412E-01		Resid rate (us/s)		-6.97738E-08	+/- 3.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.11143070042E-05		Resid phase (deg)		-35.4	+/- 2.6

RMS Theor. Amplitude 0.771 +/- 0.018
 ph/seg (deg) 67.6 6.2 Search (2048X32) 0.749
 amp/seg (%) 103.5 10.9 Interp. 0.000
 ph/frq (deg) 9.7 3.7 Inc. seg. avg. 1.471
 amp/frq (%) 13.4 6.4 Inc. frq. avg. 0.777

Group delay (usec)(sbd) 3.26141421760E+03 Apriori delay (usec) 3.26141415207E+03 Resid mbdelay (usec) 6.55280E-05 +/- 2.5E-05
 Sband delay (usec) 3.26141387207E+03 Apriori clock (usec) -1.6178593E+01 Resid sbdelay (usec) -2.80000E-04 +/- 2.0E-04
 Phase delay (usec) 3.26141415093E+03 Apriori clockrate (us/s) -9.2000002E-08 Resid phdelay (usec) -1.13999E-06 +/- 8.4E-08
 Delay rate (us/s) -1.25326272186E-01 Apriori rate (us/s) -1.25326202412E-01 Resid rate (us/s) -6.97738E-08 +/- 3.3E-10
 Total phase (deg) -13.9 Apriori accel (us/s/s) -2.11143070042E-05 Resid phase (deg) -35.4 +/- 2.6

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 94.6 el 49.5 pa -66.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 730.020 -1402.886 simultaneous interpolator

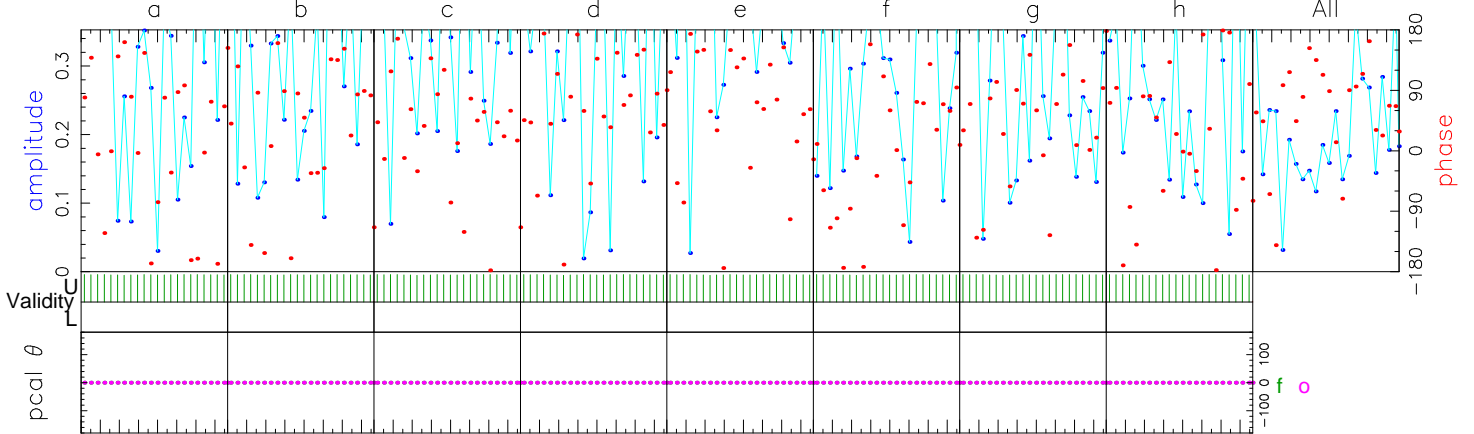


Fringe quality 0

SNR 6.7
 Int time 435.404
 Amp 0.118
 Phase 79.5
 PFD 5.6e-03
 Delays (us)
 SBD -0.001410
 MBD -0.001934
 Fringe rate (Hz) 0.003934
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120819
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

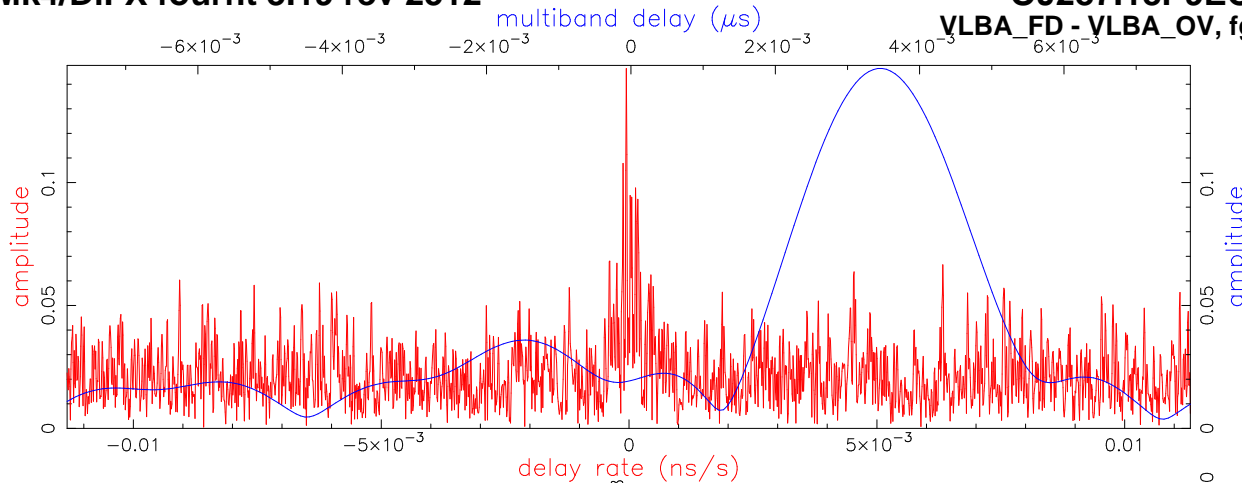
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



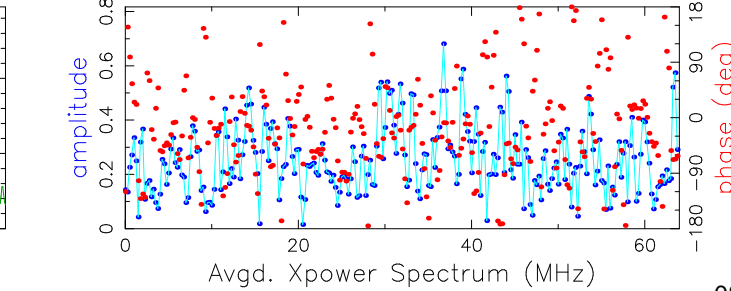
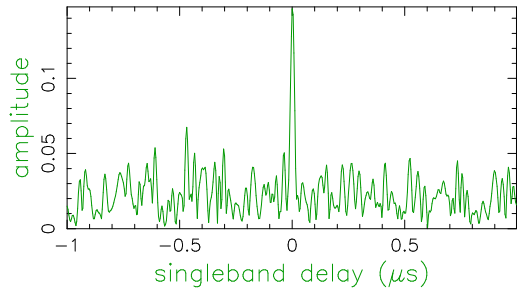
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	3.26141221846E+03				3.26141415207E+03					
Sband delay (usec)	3.26141274232E+03				-1.6178593E+01					
Phase delay (usec)	3.26141415464E+03				-9.2000002E-08					
Delay rate (us/s)	-1.25326156748E-01				-1.25326202412E-01					
Total phase (deg)		101.0			-2.11143070042E-05					
			Apriori delay (usec)			Resid mbdelay (usec)				
			Apriori clock (usec)			Resid sbdelay (usec)				
			Apriori clockrate (us/s)			Resid phdelay (usec)				
			Apriori rate (us/s)			Resid rate (us/s)				
			Apriori accel (us/s/s)			Resid phase (deg)				
ph/seg (deg)	66.3	40.9	Search (2048X32)	0.116	PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	111.3	71.5	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	23.2	24.1	Inc. seg. avg.	0.167	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	46.8	42.1	Inc. frq. avg.	0.113	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
f: az 94.6 el 49.5 pa -66.0		o: az 92.1 el 37.2 pa -57.9		u,v (fr/asec)	730.020 -1402.886					simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fo VLBA_FD - VLBA_OV, fgroup W, pol RL

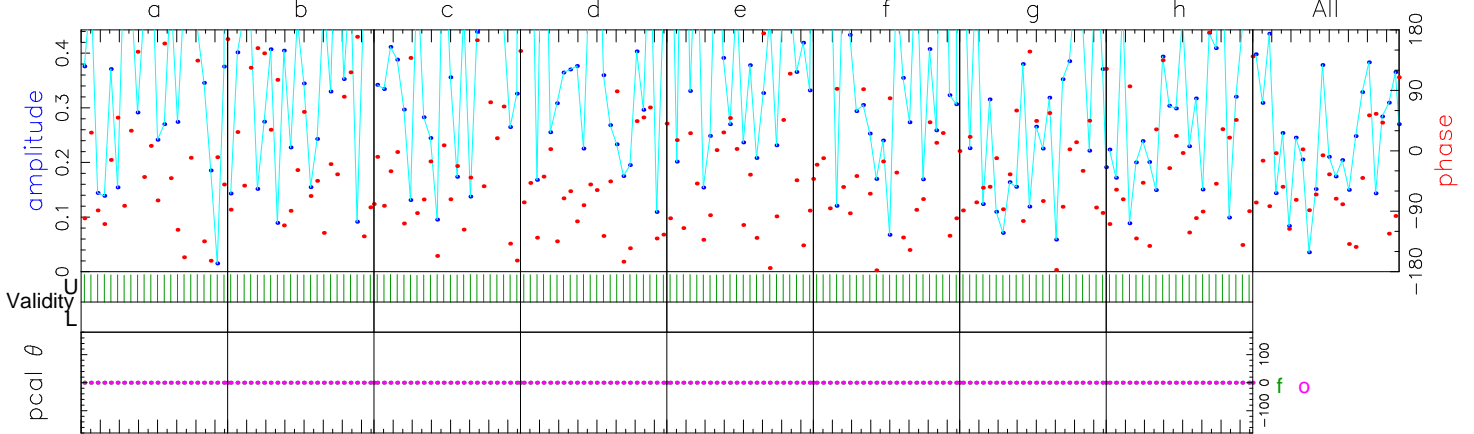


Fringe quality 9
 SNR 8.4
 Int time 435.404
 Amp 0.148
 Phase -53.1
 PFD 1.3e-08
 Delays (us)
 SBD 0.001286
 MBD 0.003486
 Fringe rate (Hz) -0.004989
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120824
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



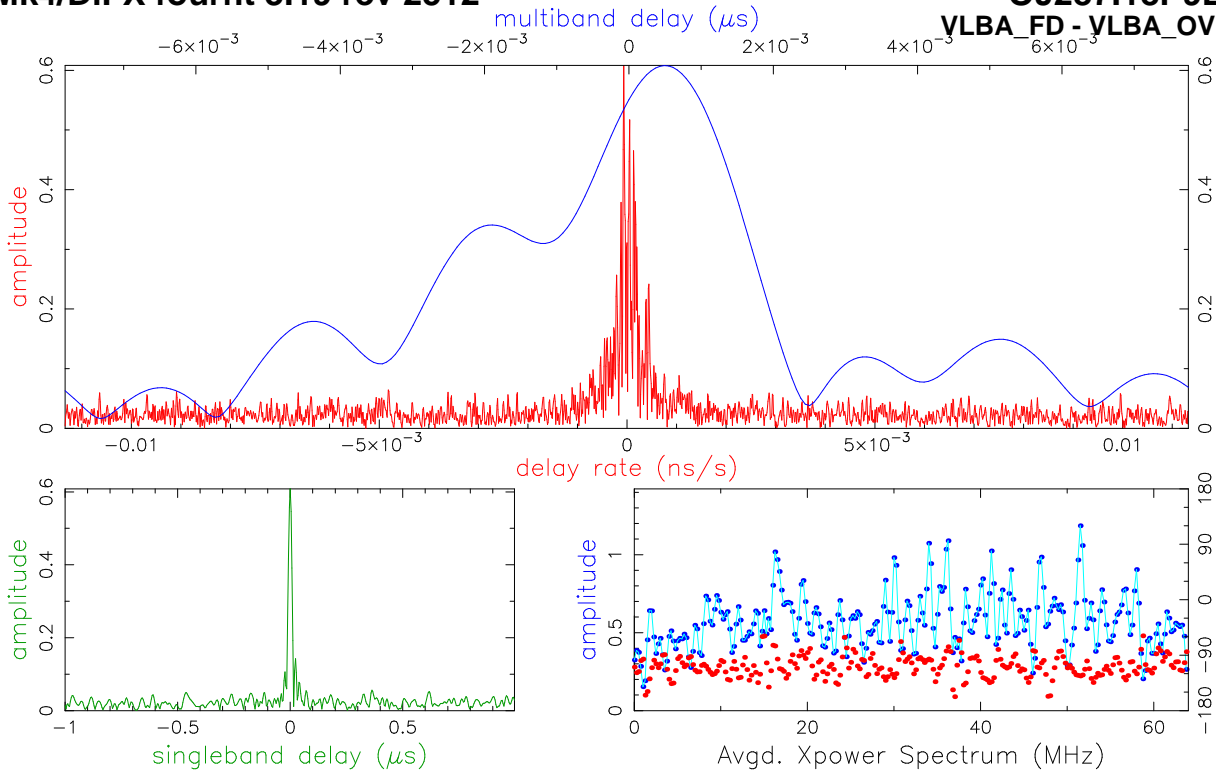
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-48.1	-49.4	-45.3	-60.0	-65.0	-45.8	-47.7	-64.1	Phase	-53.1
	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	Ampl.	0.1
	6.9	68.5	5.4	257.3	225.9	256.8	258.8	174.4	Sbd box	257.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.26141763857E+03		Apriori delay (usec)		3.26141415207E+03		Resid mbdelay (usec)		3.48649E-03	+/- 1.3E-04
Sband delay (usec)	3.26141543782E+03		Apriori clock (usec)		-1.6178593E+01		Resid sbdelay (usec)		1.28575E-03	+/- 1.0E-03
Phase delay (usec)	3.26141415036E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		-1.71347E-06	+/- 4.4E-07
Delay rate (us/s)	-1.25326260326E-01		Apriori rate (us/s)		-1.25326202412E-01		Resid rate (us/s)		-5.79132E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.11143070042E-05		Resid phase (deg)		-53.1	+/- 13.6

ph/seg (deg) 57.5 32.6 Amplitude 0.148 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 98.5 56.9 Search (2048X32) 0.144 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.0 19.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.1 33.6 Inc. seg. avg. 0.213 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 730.020 -1402.886 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fo...18P9EC Output file: /Exps/c201a/v1/1234/No0027/fo.W.146.18P9EC simultaneous interpolator

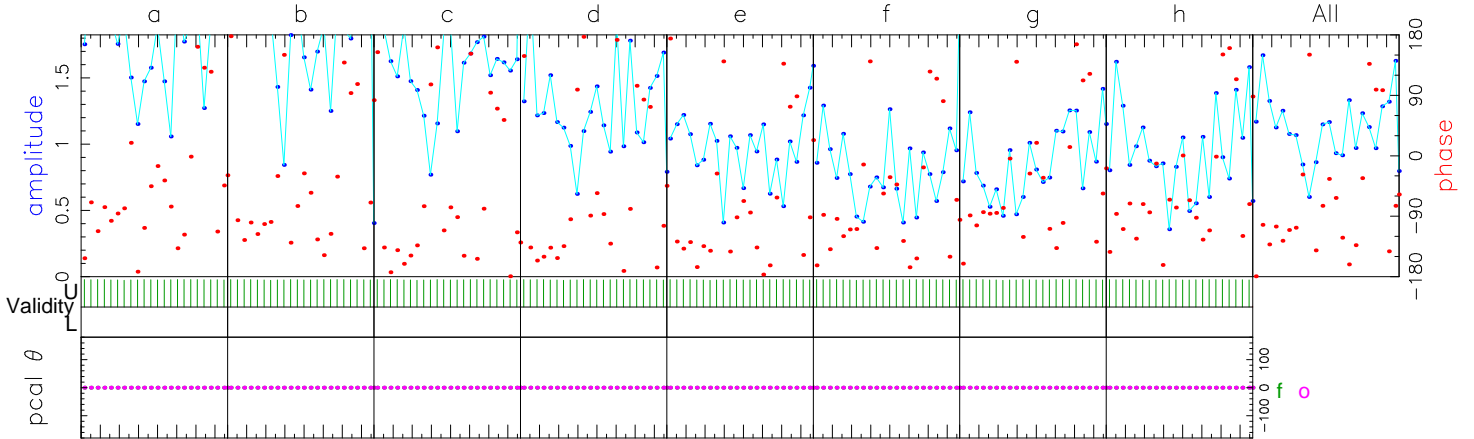


Fringe quality 3

SNR 34.7
Int time 435.404
Amp 0.608
Phase -116.9
PFD 0.0e+00
Delays (us)
SBD -0.000205
MBD 0.000494
Fringe rate (Hz)
-0.005957
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120810
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

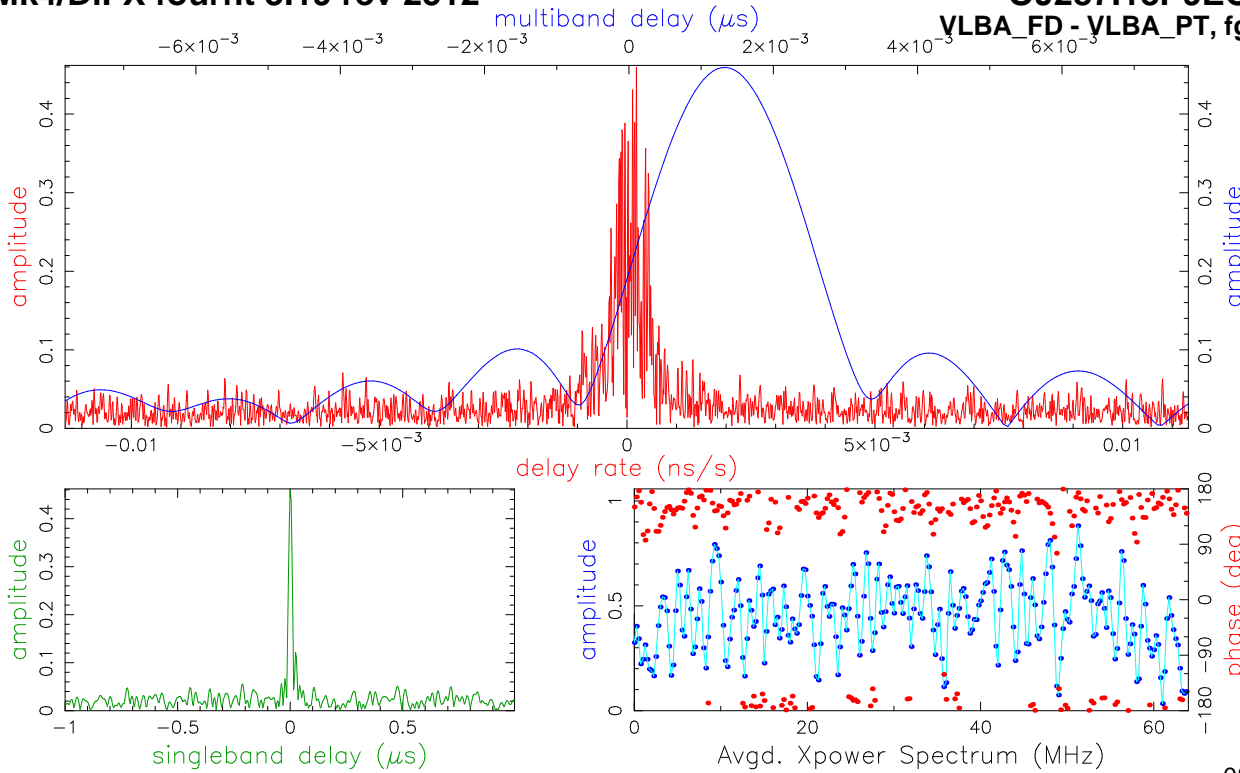


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-89.1	-109.2	-151.9	-144.9	-133.9	-112.5	-88.7	-93.8		-116.9
	1.0	1.0	0.8	0.7	0.6	0.4	0.3	0.5		0.7
	256.9	256.7	256.9	257.3	257.1	257.4	257.1	257.4		256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
o	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Manl PC
f	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	3.26141464567E+03		Apriori delay (usec)		3.26141415207E+03		Resid mbdelay (usec)		4.93590E-04	+/- 3.1E-05
Sband delay (usec)	3.26141394682E+03		Apriori clock (usec)		-1.6178593E+01		Resid sbdelay (usec)		-2.05250E-04	+/- 2.5E-04
Phase delay (usec)	3.26141414831E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		-3.76863E-06	+/- 1.1E-07
Delay rate (us/s)	-1.25326271563E-01		Apriori rate (us/s)		-1.25326202412E-01		Resid rate (us/s)		-6.91503E-08	+/- 4.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.11143070042E-05		Resid phase (deg)		-116.9	+/- 3.3

ph/seg (deg) 66.9 7.9 Search (2048X32) 0.598 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 95.7 13.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.3 4.7 Inc. seg. avg. 1.127 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.7 8.1 Inc. frq. avg. 0.663 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 730.020 -1402.886 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fo.W.83.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fp
VLBA_FD - VLBA_PT, fgroup W, pol RR

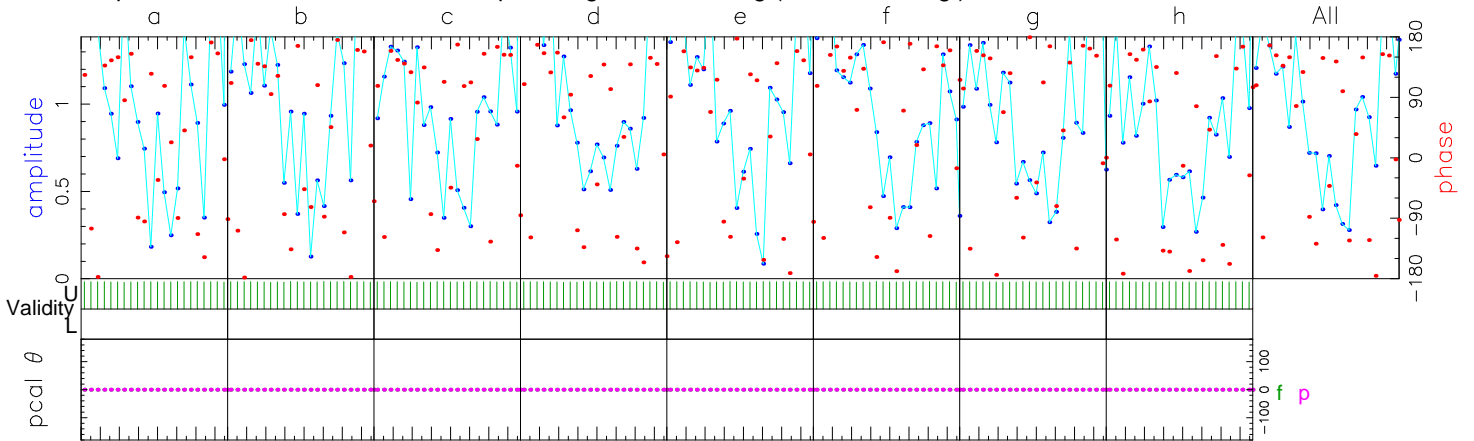


Fringe quality 7

SNR 26.3
Int time 434.394
Amp 0.462
Phase 153.8
PFD 0.0e+00
Delays (us)
SBD 0.000935
MBD 0.001345
Fringe rate (Hz) 0.016430
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

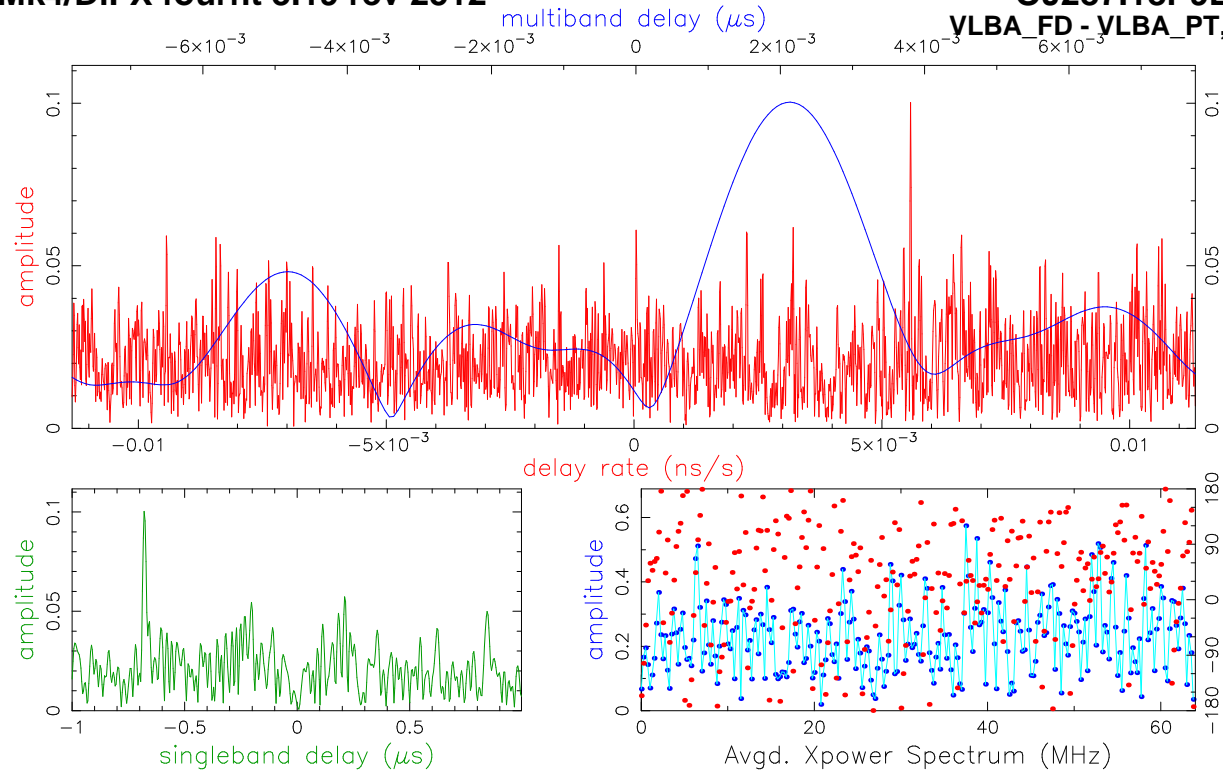
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120815
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		9.41546054201E+02			9.41544709624E+02				1.34458E-03	+/- 4.1E-05
Sband delay (usec)		9.41545644874E+02			-1.3370643E+01				9.35250E-04	+/- 3.3E-04
Phase delay (usec)		9.41544714584E+02			-9.488658E-08				4.95993E-06	+/- 1.4E-07
Delay rate (us/s)		-2.92071876276E-02			-2.92073783657E-02				1.90738E-07	+/- 5.5E-10
Total phase (deg)			257.1		-7.16443948397E-06				153.8	+/- 4.4
ph/seg (deg)	RMS 74.0	Theor. 10.4	Amplitude 161.8	0.462 +/- 0.018	155.0	154.3	159.3			
amp/seg (%)	137.8	18.2	Search (2048X32)	0.443	0.5	0.5	0.5			
ph/frq (deg)	7.3	6.2	Interp.	0.000	0.5	0.5	0.5			
amp/frq (%)	9.4	10.7	Inc. seg. avg.	0.947	0.5	0.5	0.5			
			Inc. frq. avg.	0.460	0.5	0.5	0.5			
f: az 94.6 el 49.5 pa -66.0										
p: az 96.0 el 45.7 pa -60.9										
u,v (fr/asec) 166.802 -655.675										
Control file: cf_1234_gmva										
Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC										
Output file: /Exps/c201a/v1/1234/No0027/fp.W.107.18P9EC										

simultaneous interpolator

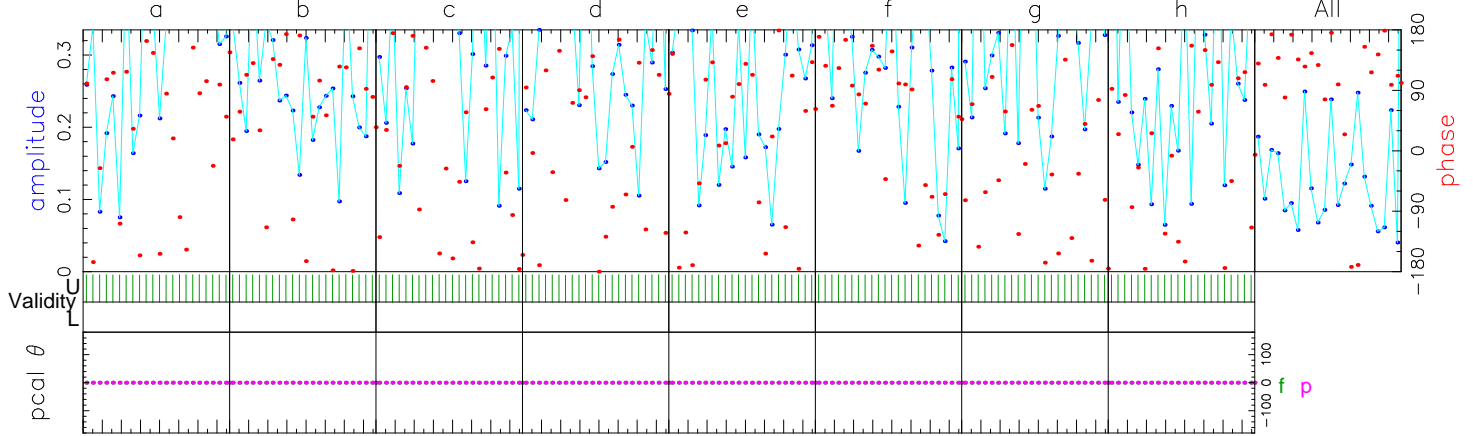


Fringe quality 0

SNR 5.7
Int time 434.394
Amp 0.112
Phase 138.5
PFD 9.0e-01
Delays (us)
SBD -0.678755
MBD 0.002169
Fringe rate (Hz)
0.481656
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

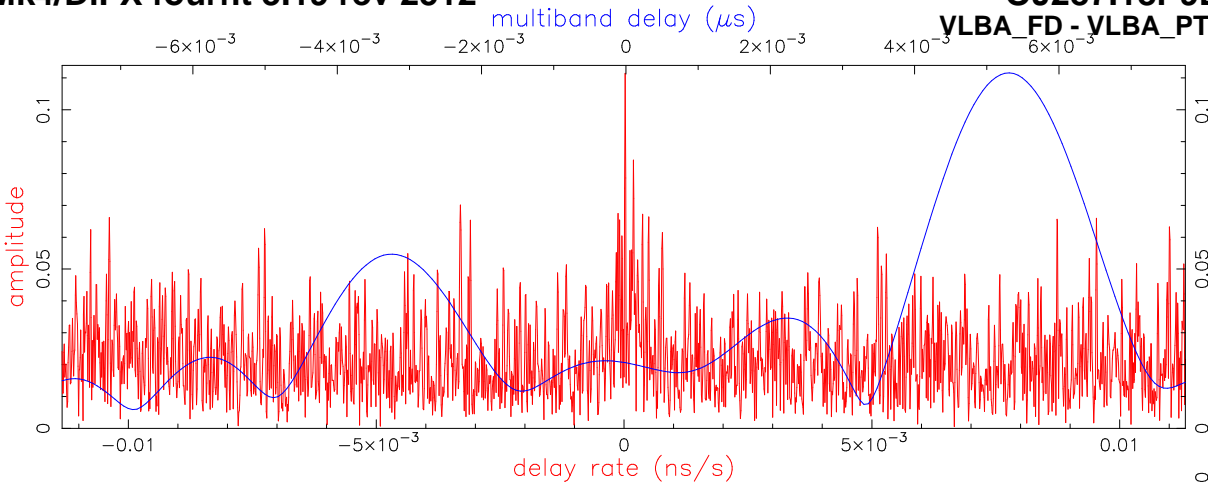
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120820
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

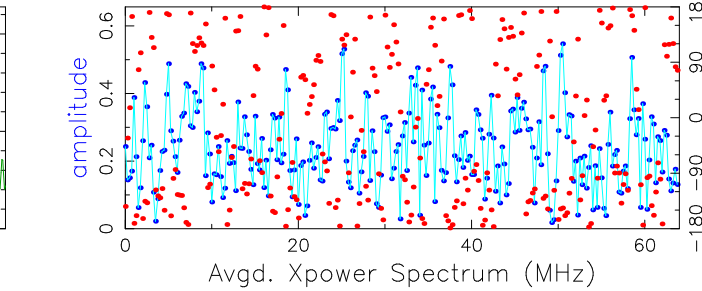
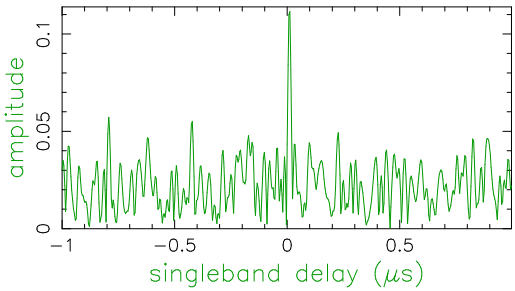


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	134.5	119.4	-169.9	133.3	146.2	130.8	-133.3	117.6	Phase	138.5
	0.2	0.2	0.1	0.1	0.1	0.2	0.0	0.1	Ampl.	0.1
	84.4	295.9	48.0	322.8	122.9	82.5	489.9	379.0	Sbd box	83.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.40859378205E+02		Apriori delay (usec)		9.41544709624E+02		Resid mbdelay (usec)		2.16858E-03	+/- 1.9E-04
Sband delay (usec)	9.40865955124E+02		Apriori clock (usec)		-1.3370643E+01		Resid sbdelay (usec)		-6.78755E-01	+/- 1.5E-03
Phase delay (usec)	9.41544714092E+02		Apriori clockrate (us/s)		-9.4886582E-08		Resid phdelay (usec)		4.46764E-06	+/- 6.4E-07
Delay rate (us/s)	-2.92017868158E-02		Apriori rate (us/s)		-2.92073783657E-02		Resid rate (us/s)		5.59155E-06	+/- 2.5E-09
Total phase (deg)	241.9		Apriori accel (us/s/s)		-7.16443948397E-06		Resid phase (deg)		138.5	+/- 19.9

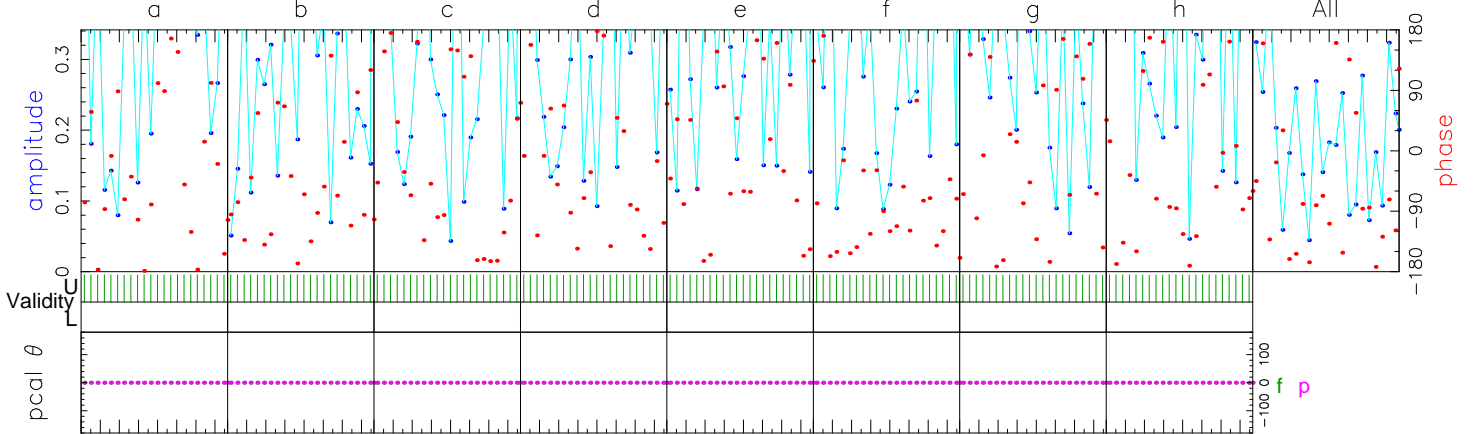
ph/seg (deg) 41.3 47.8 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.5 83.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.6 28.2 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.9 49.2 Inc. frq. avg. 0.109 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 166.802 -655.675 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fp.W.125.18P9EC



Fringe quality 0
SNR 6.5
Int time 434.393
Amp 0.114
Phase -114.3
PFD 2.3e-02
Delays (us)
SBD 0.010002
MBD 0.005254
Fringe rate (Hz) 0.001805
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120826
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



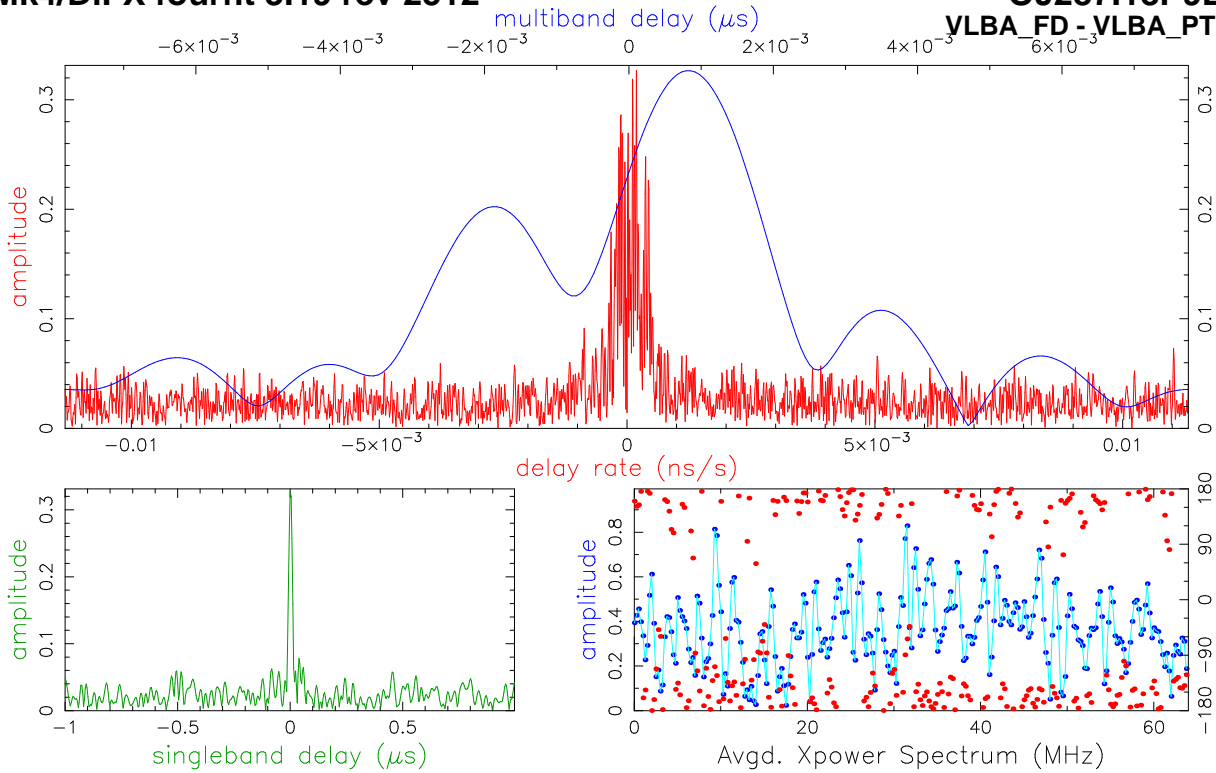
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.1	-79.3	-155.1	-110.5	-110.0	-103.9	-132.9	-105.3	Phase	-114.3
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	134.7	119.9	9.3	444.8	55.6	259.4	127.0	243.9	Sbd box	259.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.41549963177E+02		Apriori delay (usec)		9.41544709624E+02		Resid mbdelay (usec)		5.25355E-03	+/- 1.7E-04
Sband delay (usec)	9.41554711374E+02		Apriori clock (usec)		-1.3370643E+01		Resid sbdelay (usec)		1.00017E-02	+/- 1.3E-03
Phase delay (usec)	9.41544705939E+02		Apriori clockrate (us/s)		-9.4886582E-08		Resid phdelay (usec)		-3.68484E-06	+/- 5.7E-07
Delay rate (us/s)	-2.92073574150E-02		Apriori rate (us/s)		-2.92073783657E-02		Resid rate (us/s)		2.09506E-08	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.16443948397E-06		Resid phase (deg)		-114.3	+/- 17.6

	RMS	Theor.	Amplitude	0.114 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	71.1	42.3	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	108.9	73.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	24.3	25.0	Inc. seg. avg.	0.151	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	37.5	43.6	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

f: az 94.6 el 49.5 pa -66.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 166.802 -655.675 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fp.W.152.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fp
VLBA_FD - VLBA_PT, fgroup W, pol LL

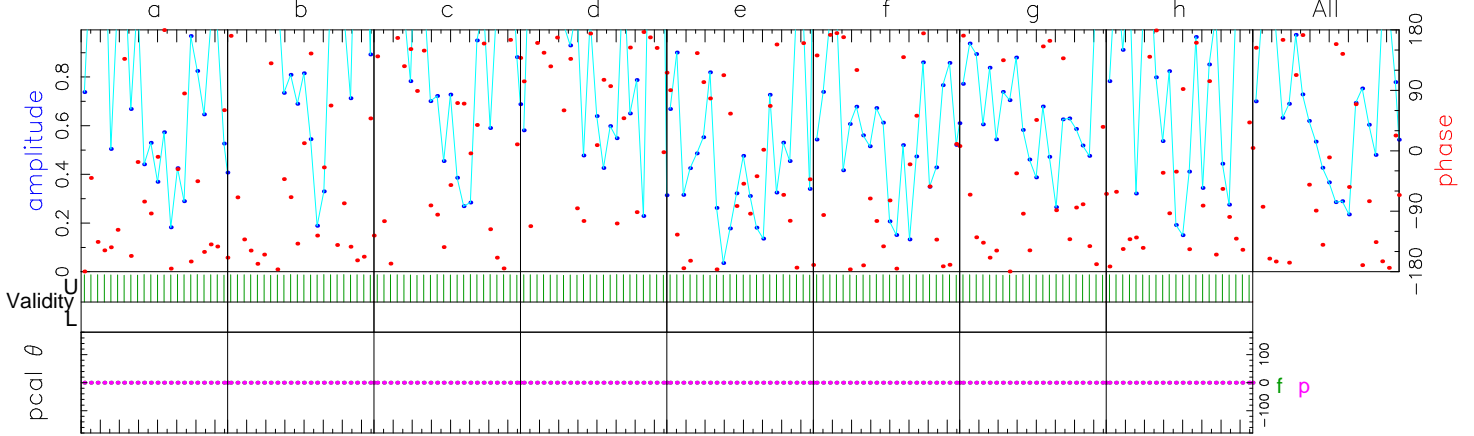


Fringe quality 8

SNR 18.9
Int time 434.394
Amp 0.331
Phase -162.1
PFD 0.0e+00
Delays (us)
SBD 0.001540
MBD 0.000840
Fringe rate (Hz)
0.016414
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120810
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



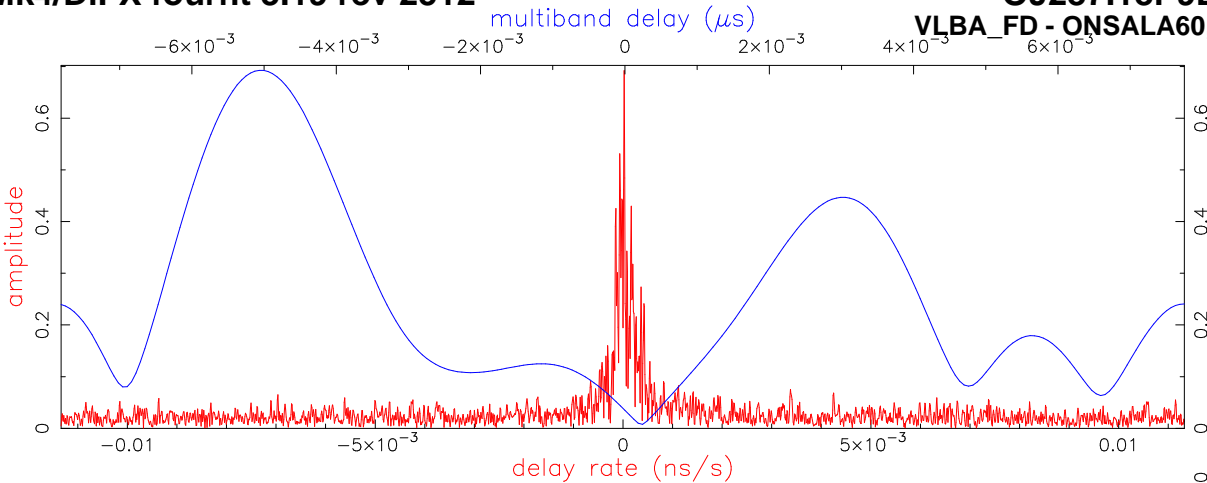
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-130.2	-147.6	171.6	153.0	173.5	-168.9	-145.3	-144.3	Phase	-162.1
	0.4	0.5	0.4	0.4	0.1	0.3	0.3	0.4	Ampl.	0.4
	256.9	256.9	257.5	256.8	304.3	257.8	257.5	257.3	Sbd box	257.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.41545549951E+02	Apriori delay (usec)	9.41544709624E+02	Resid mbdelay (usec)	8.40327E-04	+/-	5.7E-05
Sband delay (usec)	9.41546249374E+02	Apriori clock (usec)	-1.3370643E+01	Resid sbdelay (usec)	1.53975E-03	+/-	4.6E-04
Phase delay (usec)	9.41544704397E+02	Apriori clockrate (us/s)	-9.4886582E-08	Resid phdelay (usec)	-5.22757E-06	+/-	2.0E-07
Delay rate (us/s)	-2.92071878133E-02	Apriori rate (us/s)	-2.92073783657E-02	Resid rate (us/s)	1.90552E-07	+/-	7.7E-10
Total phase (deg)	-58.8	Apriori accel (us/s/s)	-7.16443948397E-06	Resid phase (deg)	-162.1	+/-	6.1

ph/seg (deg)	RMS 77.0	Theor. 14.6	Amplitude Search (2048X32)	0.331 +/- 0.018	0.314	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	134.3	25.4	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	29.4	8.6	Inc. seg. avg.	0.665	0.665	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	33.9	15.0	Inc. frq. avg.	0.357	0.357	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

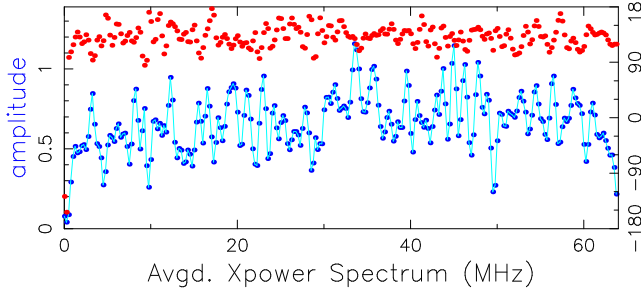
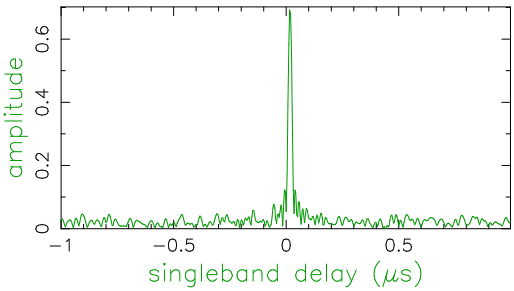
f: az 94.6 el 49.5 pa -66.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 166.802 -655.675 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fp.W.86.18P9EC



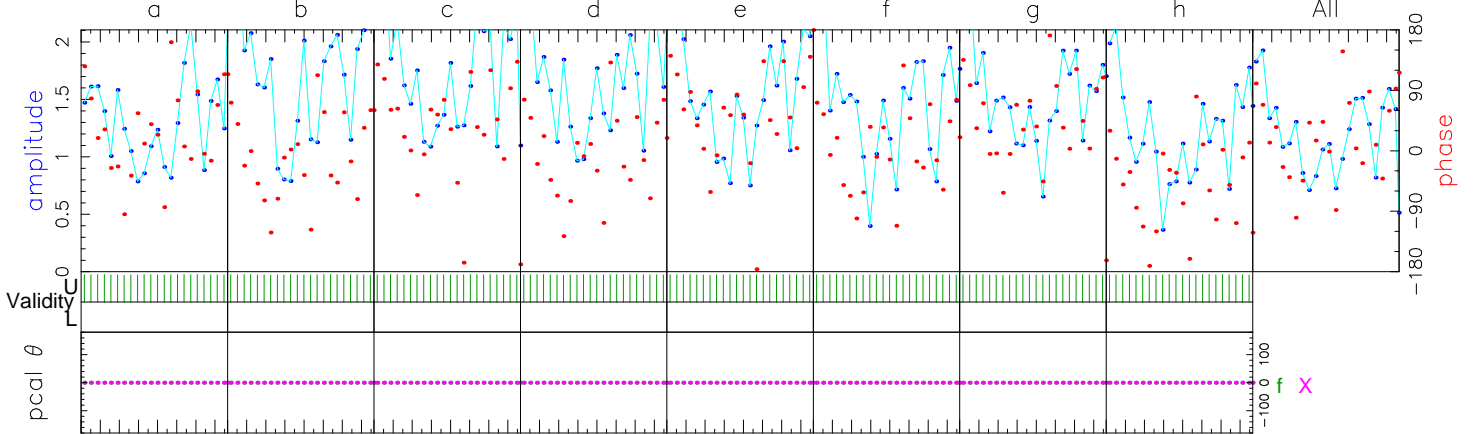
Fringe quality 4

SNR 40.1
 Int time 435.282
 Amp 0.702
 Phase 27.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.017170
 MBD -0.004998
 Fringe rate (Hz)
 0.001710
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120815
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

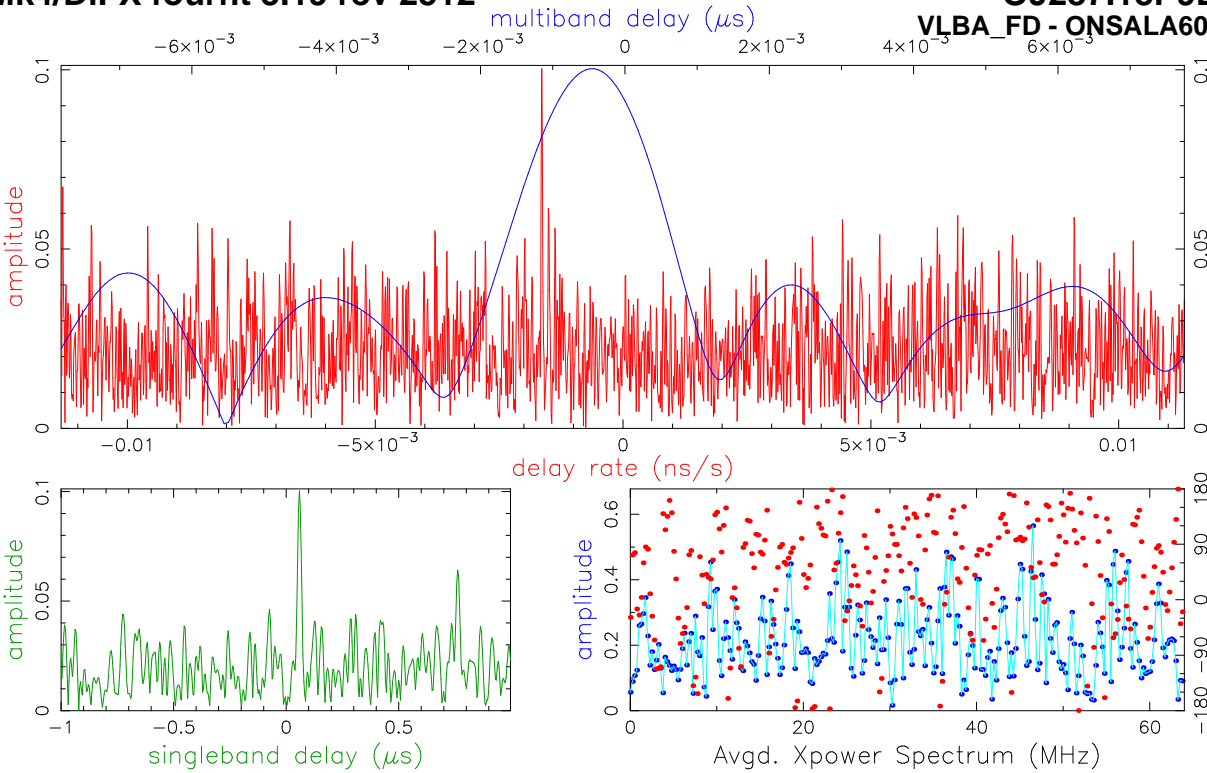


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	7.20532903521E+03		Apriori delay (usec)		7.20531840822E+03		Resid mbdelay (usec)		-4.99801E-03	+/- 2.7E-05
Sband delay (usec)	7.20533557797E+03		Apriori clock (usec)		-3.6819256E+01		Resid sbdelay (usec)		1.71697E-02	+/- 2.2E-04
Phase delay (usec)	7.20531840909E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		8.77665E-07	+/- 9.2E-08
Delay rate (us/s)	1.60072981476E+00		Apriori rate (us/s)		1.60072979491E+00		Resid rate (us/s)		1.98488E-08	+/- 3.6E-10
Total phase (deg)	273.3		Apriori accel (us/s/s)		-5.13770689756E-05		Resid phase (deg)		27.2	+/- 2.9

	RMS	Theor.	Amplitude	0.702 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	61.5	6.9	Search (2048X32)	0.675	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	89.0	12.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	43.6	4.0	Inc. seg. avg.	1.224	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	26.9	7.1	Inc. frq. avg.	0.857	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

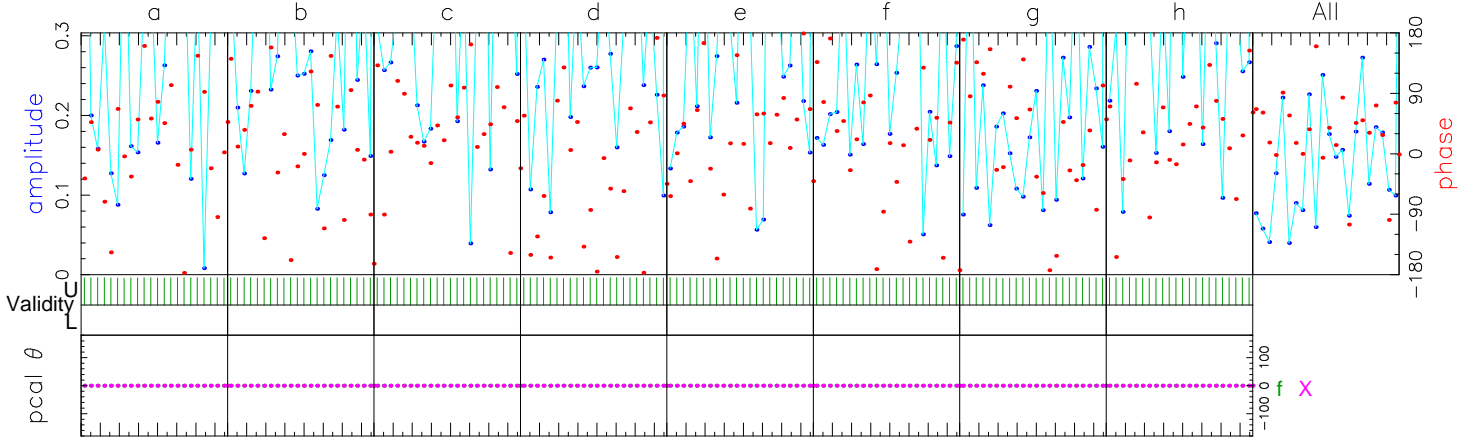
f: az 94.6 el 49.5 pa -66.0 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9837.811 -4189.595 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fX.W.103.18P9EC



Fringe quality 0
SNR 5.7
Int time 435.282
Amp 0.101
Phase 39.8
PFD 9.2e-01
Delays (us)
SBD 0.058866
MBD -0.000442
Fringe rate (Hz)
-0.141326
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120818
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

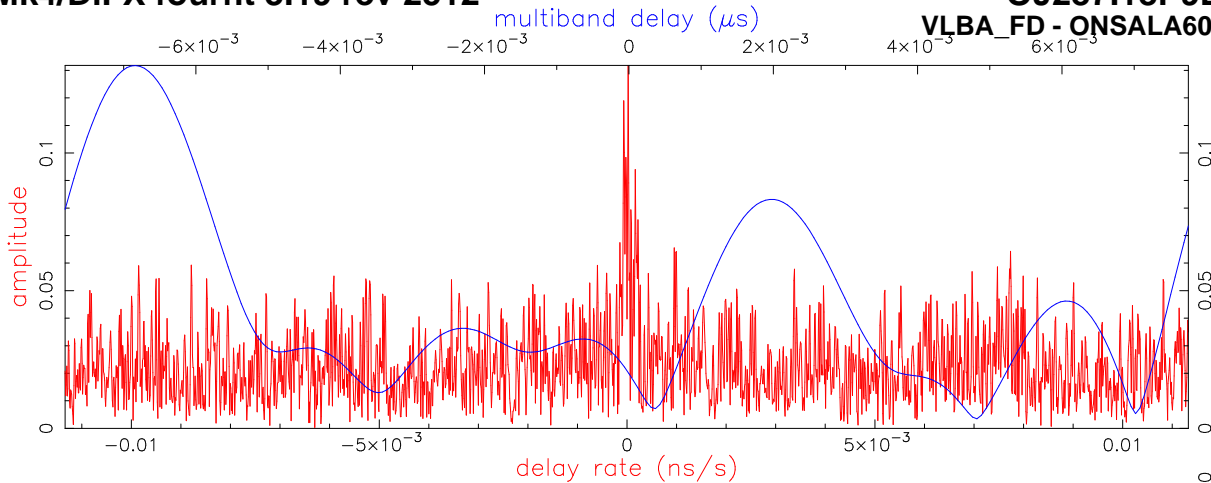


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	7.20538046622E+03	Apriori delay (usec)		7.20531840822E+03	Resid mbdelay (usec)		-4.41997E-04	+/-	1.9E-04	
Sband delay (usec)	7.20537727422E+03	Apriori clock (usec)		-3.6819256E+01	Resid sbdelay (usec)		5.88660E-02	+/-	1.5E-03	
Phase delay (usec)	7.20531840950E+03	Apriori clockrate (us/s)		-4.1900001E-07	Resid phdelay (usec)		1.28221E-06	+/-	6.5E-07	
Delay rate (us/s)	1.60072815425E+00	Apriori rate (us/s)		1.60072979491E+00	Resid rate (us/s)		-1.64065E-06	+/-	2.5E-09	
Total phase (deg)		285.9	Apriori accel (us/s/s)		-5.13770689756E-05	Resid phase (deg)		39.8	+/-	20.0

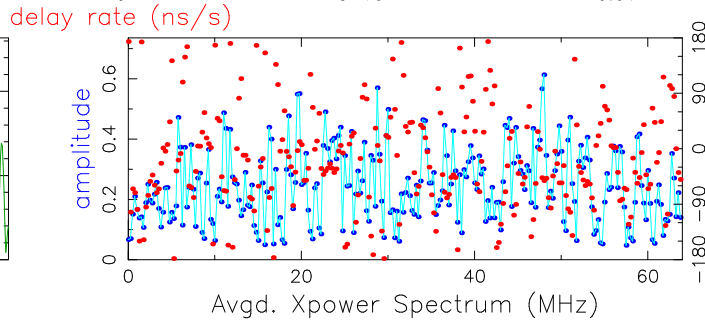
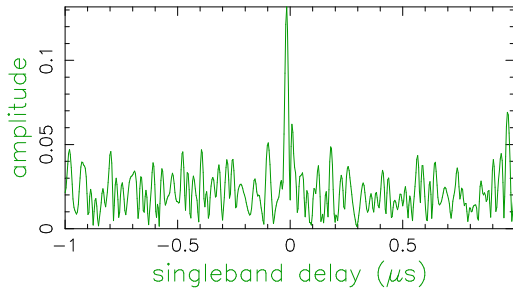
ph/seg (deg)	56.8	Theor. 48.0	Amplitude Search (2048X32)	0.101 +/- 0.018	0.098	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	77.5	83.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	22.3	28.3	Inc. seg. avg.	0.101	0.101	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	56.6	49.4	Inc. frq. avg.	0.095	0.095	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 94.6 el 49.5 pa -66.0 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9837.811 -4189.595 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fX.W.117.18P9EC



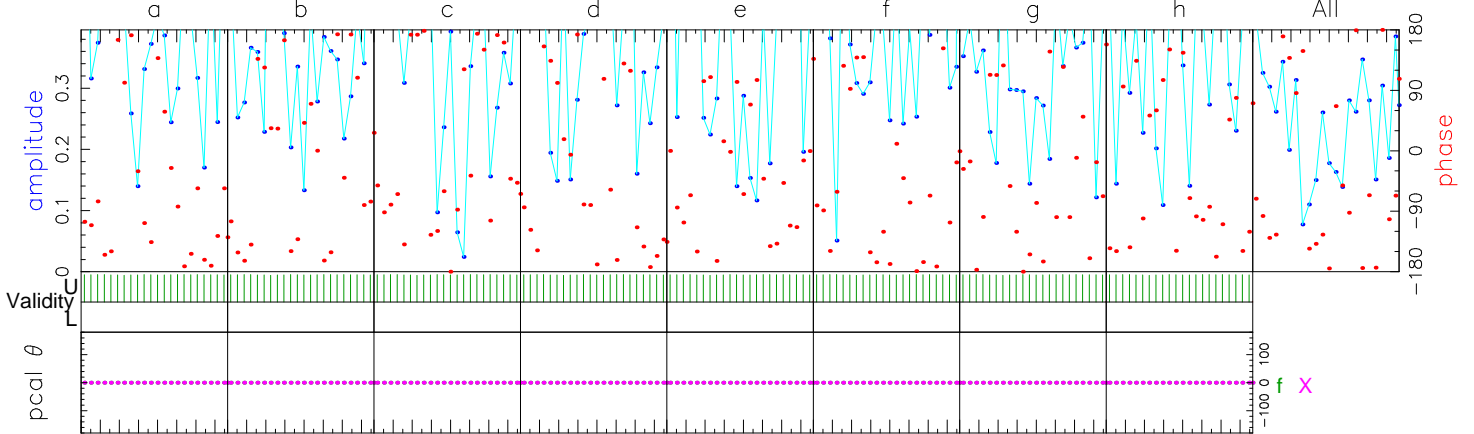
Fringe quality 9

SNR 7.5
Int time 435.282
Amp 0.132
Phase -133.7
PFD 1.8e-05
Delays (us)
SBD -0.015850
MBD -0.006849
Fringe rate (Hz)
0.001646
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120822
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



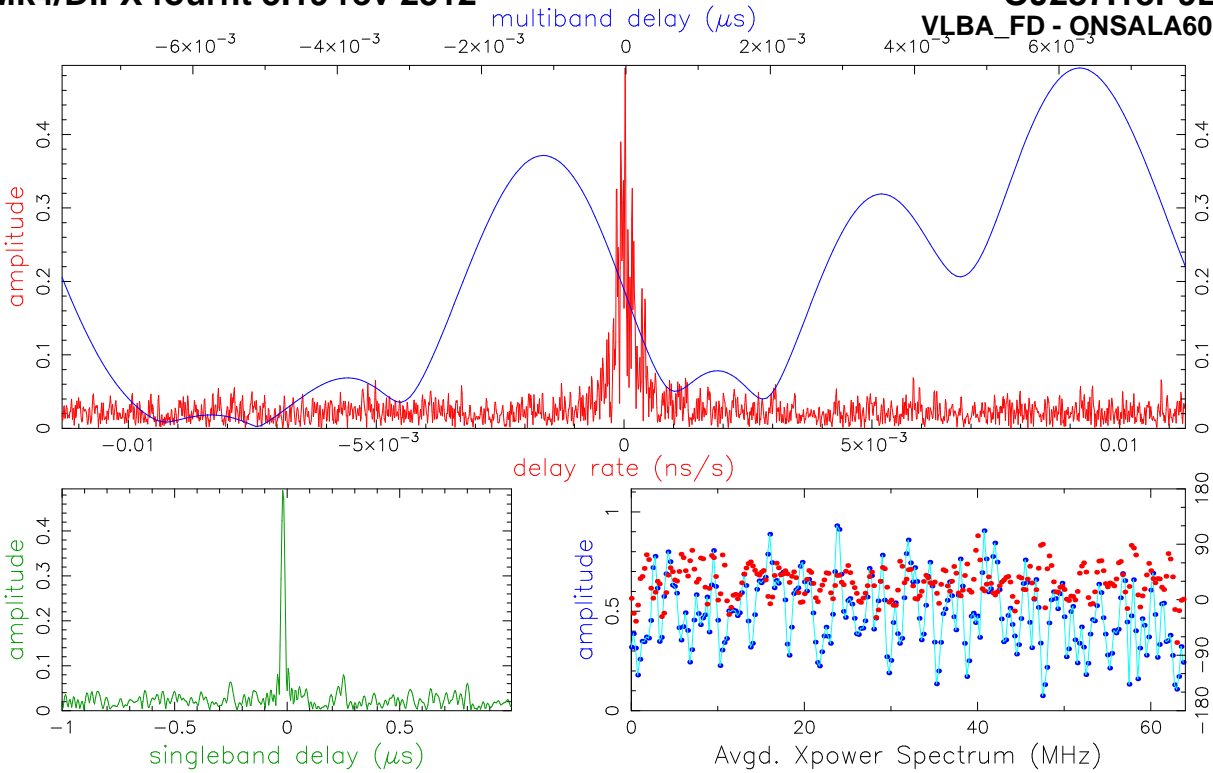
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-136.9	-162.7	-128.6	-153.8	-65.1	-144.4	-121.9	-154.2	Phase	-133.7
	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	Ampl.	0.1
	253.0	447.0	253.0	252.9	106.9	415.3	272.6	401.9	Sbd box	252.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	7.20529593389E+03	Apriori delay (usec)	7.20531840822E+03	Resid mbdelay (usec)	-6.84932E-03	+/-	1.4E-04
Sband delay (usec)	7.20530255872E+03	Apriori clock (usec)	-3.6819256E+01	Resid sbdelay (usec)	-1.58495E-02	+/-	1.1E-03
Phase delay (usec)	7.20531840390E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	-4.31091E-06	+/-	4.9E-07
Delay rate (us/s)	1.60072981401E+00	Apriori rate (us/s)	1.60072979491E+00	Resid rate (us/s)	1.91027E-08	+/-	1.9E-09
Total phase (deg)	112.4	Apriori accel (us/s/s)	-5.13770689756E-05	Resid phase (deg)	-133.7	+/-	15.2

ph/seg (deg)	65.8	RMS	Theor.	Amplitude	0.132 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	111.4	65.8	36.5	Search (2048X32)	0.128	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	33.3	21.6	21.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	39.4	37.6	37.6	Inc. seg. avg.	0.205	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
				Inc. frq. avg.	0.139	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 94.6 el 49.5 pa -66.0 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9837.811 -4189.595 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fX.W.137.18P9EC

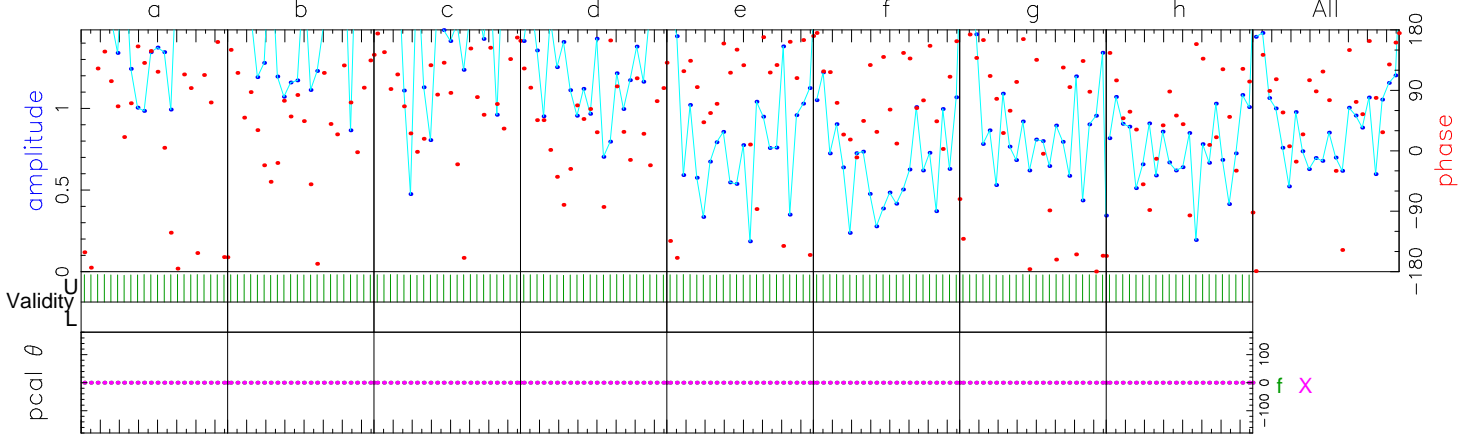


Fringe quality 5

SNR 28.2
Int time 435.282
Amp 0.494
Phase 103.2
PFD 0.0e+00
Delays (us)
SBD -0.018426
MBD 0.006312
Fringe rate (Hz) 0.001737
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

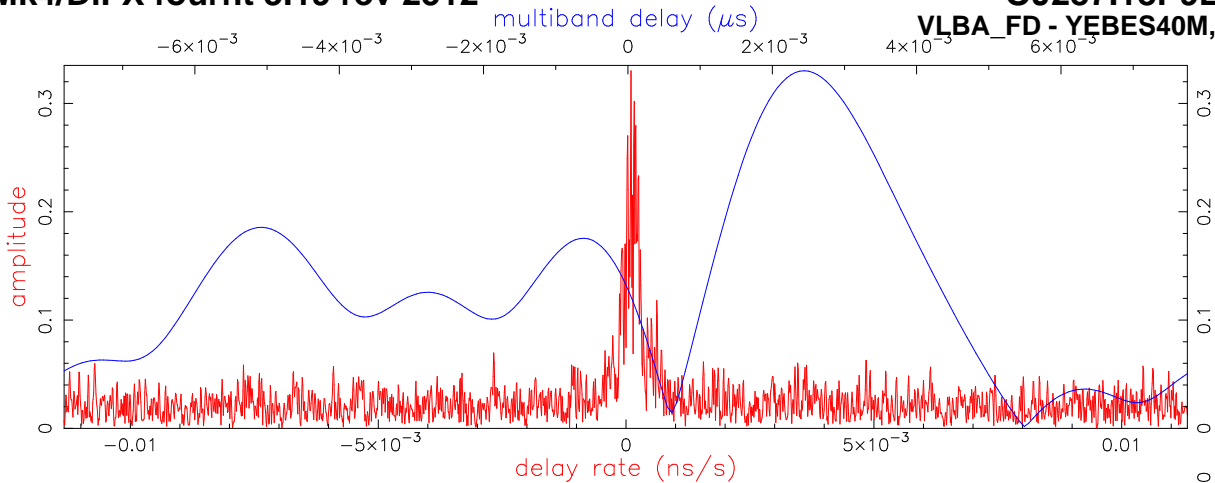
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120811
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



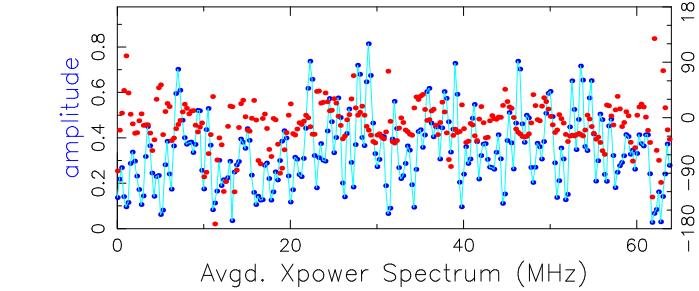
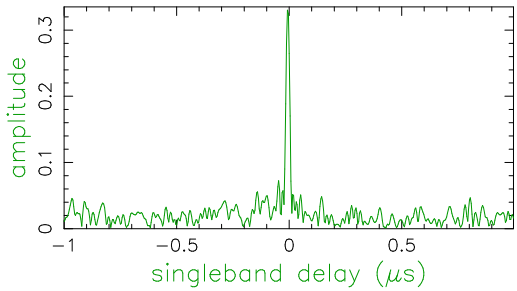
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		7.20529347033E+03			7.20531840822E+03				6.31212E-03	+/- 3.9E-05
Sband delay (usec)		7.20529998272E+03			-3.6819256E+01				-1.84255E-02	+/- 3.1E-04
Phase delay (usec)		7.20531841154E+03			-4.1900001E-07				3.32735E-06	+/- 1.3E-07
Delay rate (us/s)		1.60072981507E+00			1.60072979491E+00				2.01648E-08	+/- 5.2E-10
Total phase (deg)			349.3						103.2	+/- 4.1
Apriori delay (usec)										
Apriori clock (usec)					0.483					
Apriori clockrate (us/s)					0.000					
Apriori rate (us/s)					0.900					
Apriori accel (us/s/s)					0.630					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 63.8 9.7 Search (2048X32) 0.494 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 99.6 17.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.7 5.8 Inc. seg. avg. 0.900 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.7 10.0 Inc. frq. avg. 0.630 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9837.811 -4189.595 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fX.W.88.18P9EC



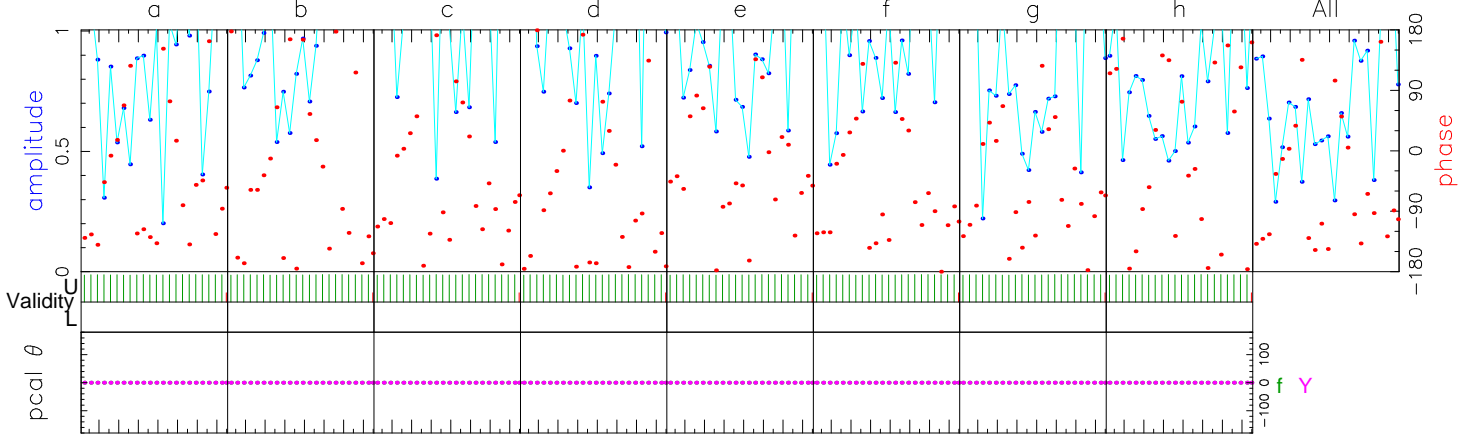
Fringe quality 8

SNR 19.0
 Int time 429.903
 Amp 0.335
 Phase -109.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.006218
 MBD 0.002464
 Fringe rate (Hz)
 0.008267
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224505.12
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120815
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



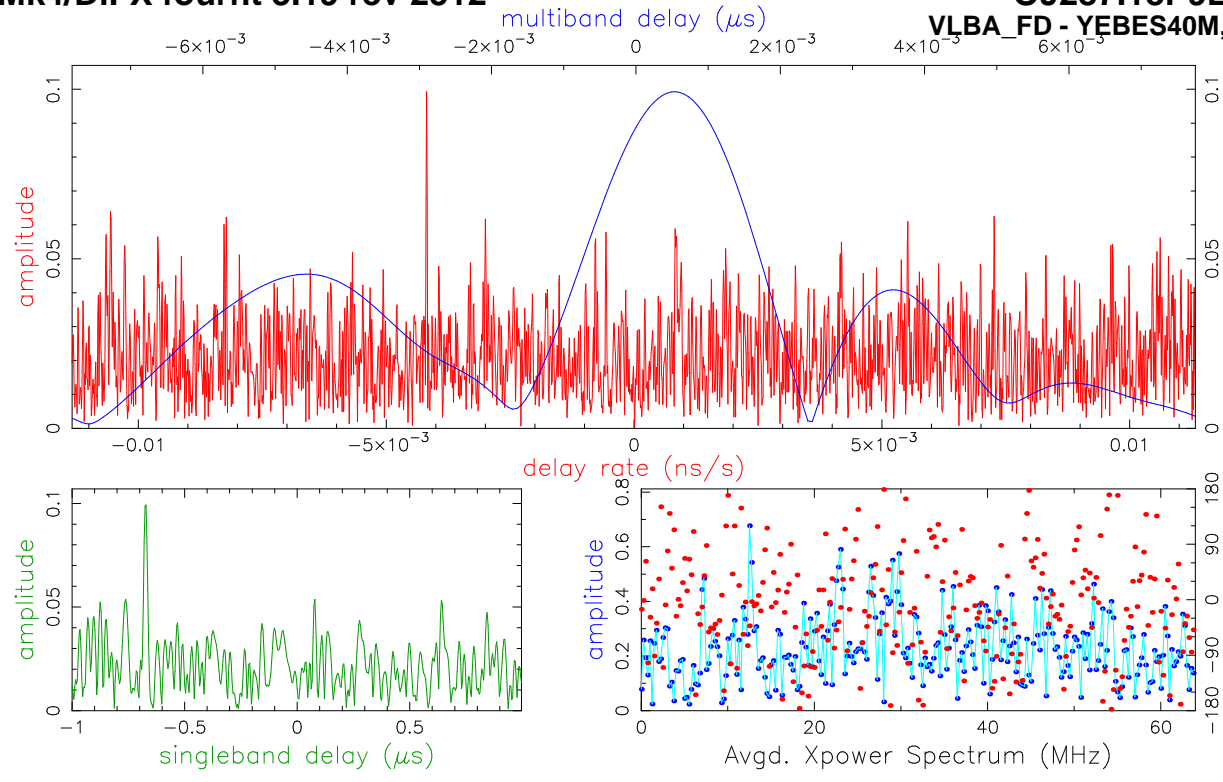
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	3.74882525038E+03	Apriori delay (usec)	3.74883841162E+03	Resid mbdelay (usec)	2.46376E-03	+/-	5.7E-05
Sband delay (usec)	3.74883219337E+03	Apriori clock (usec)	-8.0689220E+00	Resid sbdelay (usec)	-6.21825E-03	+/-	4.5E-04
Phase delay (usec)	3.74883840808E+03	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	-3.54166E-06	+/-	1.9E-07
Delay rate (us/s)	1.79203240469E+00	Apriori rate (us/s)	1.79203230872E+00	Resid rate (us/s)	9.59670E-08	+/-	7.7E-10
Total phase (deg)	169.8	Apriori accel (us/s/s)	-2.53910983476E-05	Resid phase (deg)	-109.8	+/-	6.0

ph/seg (deg)	78.9	RMS	14.5	Theor.	14.5	Amplitude	0.335 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	130.5	Search (2048X32)	0.312	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	52.5	Inc. seg. avg.	0.674	Inc. frq. avg.	0.423	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	34.5	Inc. frq. avg.	0.423	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 94.6 el 49.5 pa -66.0 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10963.096 -1833.375 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fY.W.108.18P9EC

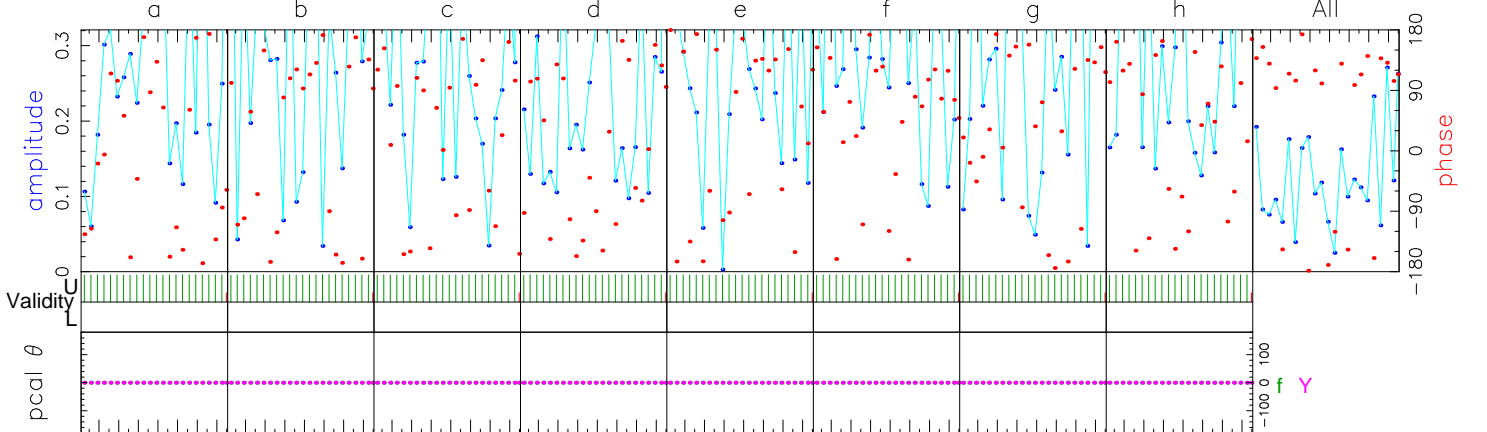


Fringe quality 0

SNR 5.7
 Int time 429.904
 Amp 0.107
 Phase 141.2
 PFD 9.1e-01
 Delays (us)
 SBD -0.673678
 MBD 0.000527
 Fringe rate (Hz)
 -0.361329
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

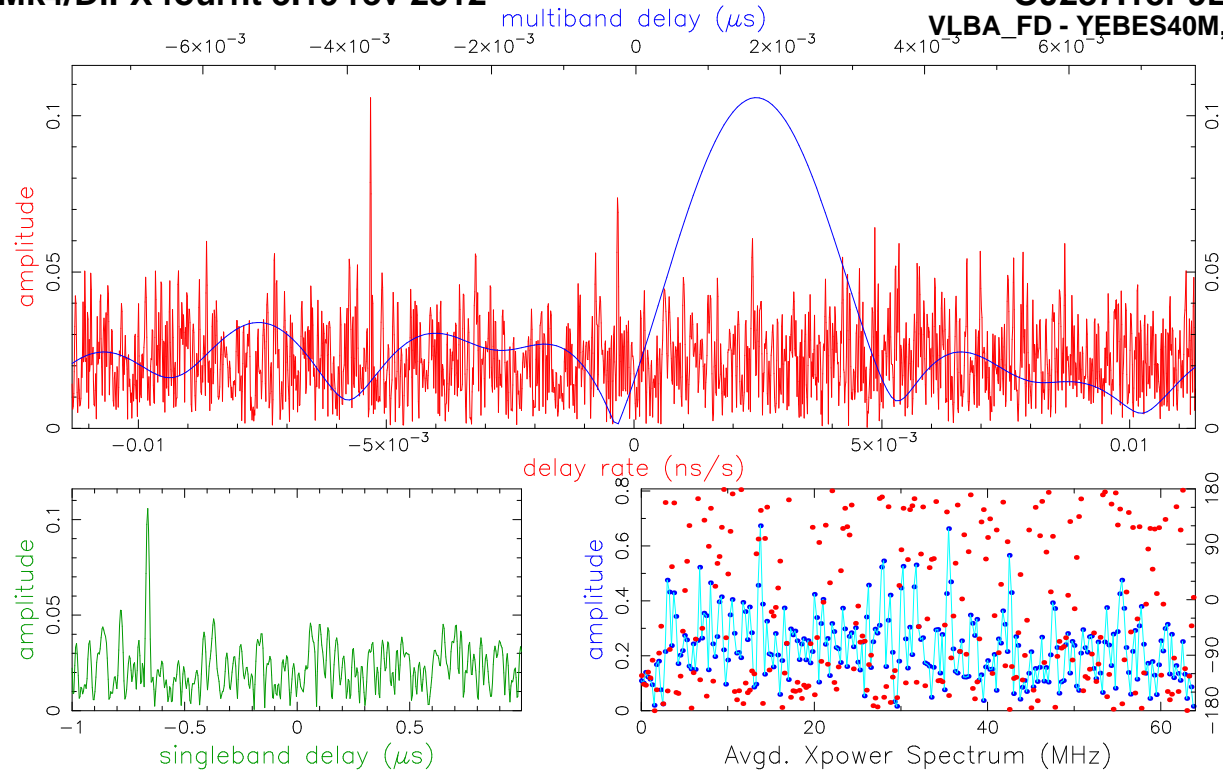
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224505.12
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120820
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.74816706334E+03			3.74883841162E+03				5.26721E-04	+/- 1.9E-04
Sband delay (usec)		3.74816473387E+03			-8.0689220E+00				-6.73678E-01	+/- 1.5E-03
Phase delay (usec)		3.74883841617E+03			-1.1100000E-07				4.55475E-06	+/- 6.4E-07
Delay rate (us/s)		1.79202811405E+00			1.79203230872E+00				-4.19467E-06	+/- 2.6E-09
Total phase (deg)			60.9		-2.53910983476E-05				141.2	+/- 20.0
ph/seg (deg)	RMS 42.3	Theor. 47.9	Amplitude 0.107 +/- 0.019	Search (2048X32) 0.097	PCal mode: MANUAL, MANUAL	PCal rate: 0.000E+00, 0.000E+00 (us/s)	PC period (AP's) 5, 5	sb window (us) -1.000	1.000	
amp/seg (%)	65.7	83.7	Interp. 0.000	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008	0.008		
ph/frq (deg)	28.9	28.3	Inc. seg. avg. 0.097	0.097	Sample rate(MISamp/s): 128	Data rate(Mb/s): 2048	dr window (ns/s) -0.011	0.011		
amp/frq (%)	39.1	49.3	Inc. frq. avg. 0.103	0.103	nlags: 256	t_cohere infinite	ion window (TEC) 0.00	0.00		
f: az 94.6 el 49.5 pa -66.0	Y: az 265.0 el 37.4 pa 53.7		u, v (fr/asec) -10963.096 -1833.375				simultaneous interpolator			

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fY.W.128.18P9EC

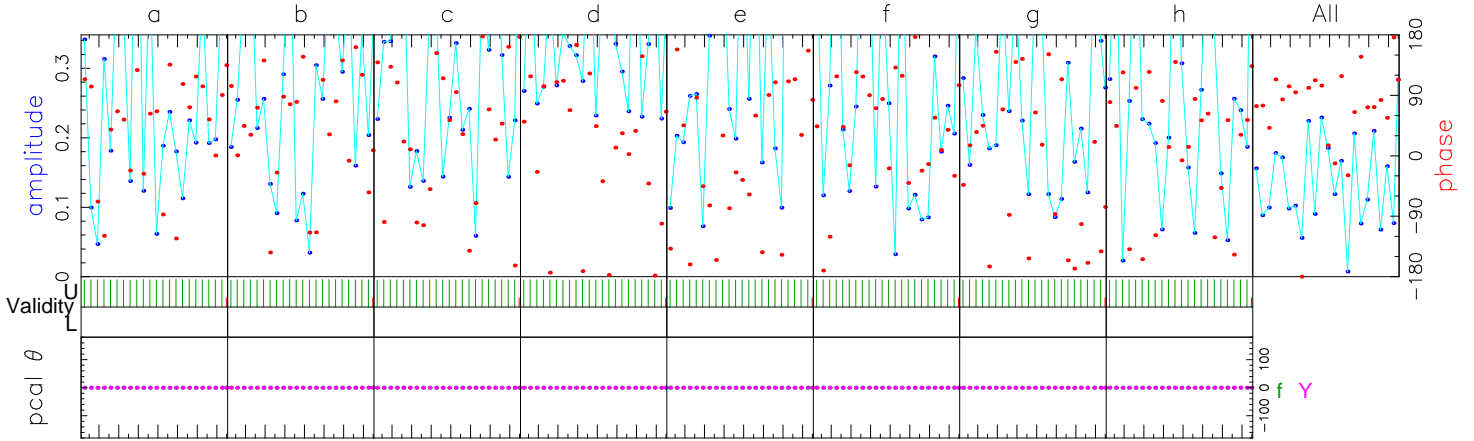


Fringe quality 0

SNR 6.0
 Int time 429.903
 Amp 0.116
 Phase 85.4
 PFD 4.0e-01
 Delays (us)
 SBD -0.664394
 MBD 0.001654
 Fringe rate (Hz)
 -0.458500
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224505.12
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120825
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

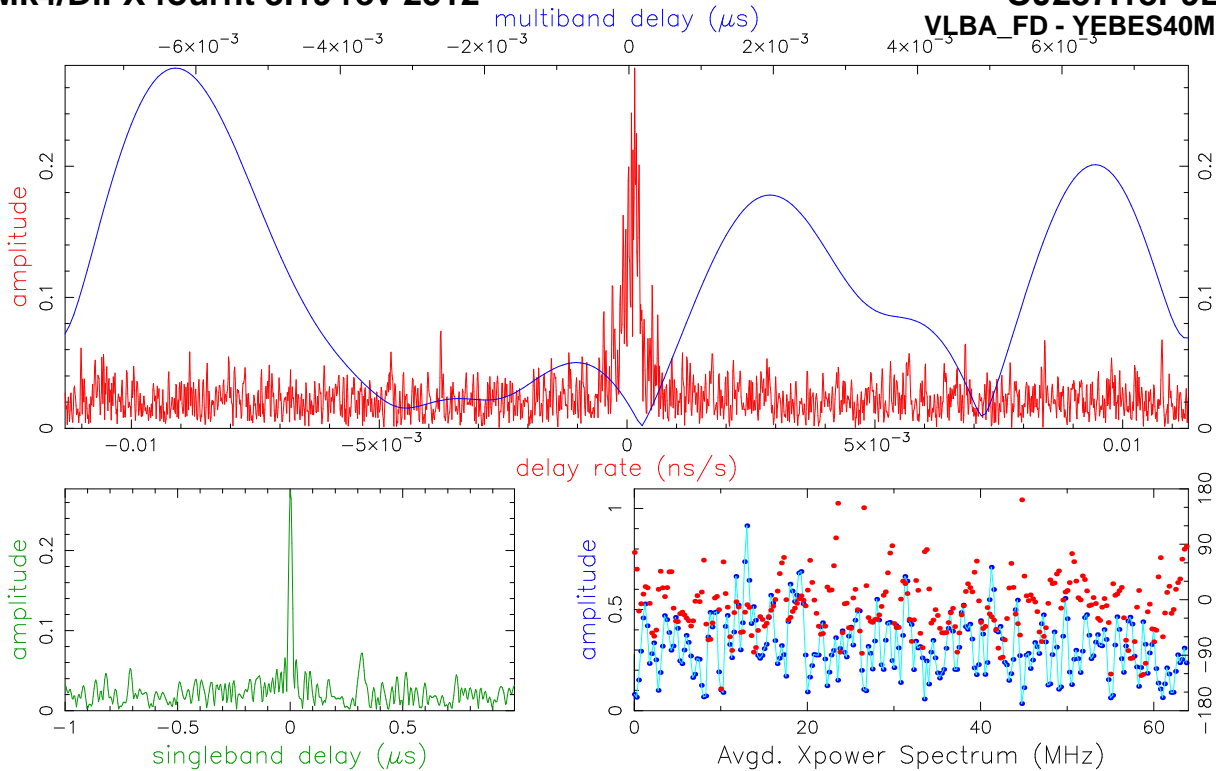
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	3.74816819019E+03		Apriori delay (usec)		3.74883841162E+03		Resid mbdelay (usec)		1.65357E-03	+/- 1.8E-04
Sband delay (usec)	3.74817401737E+03		Apriori clock (usec)		-8.0689220E+00		Resid sbdelay (usec)		-6.64394E-01	+/- 1.4E-03
Phase delay (usec)	3.74883841437E+03		Apriori clockrate (us/s)		-1.1100000E-07		Resid phdelay (usec)		2.75417E-06	+/- 6.2E-07
Delay rate (us/s)	1.79202698599E+00		Apriori rate (us/s)		1.79203230872E+00		Resid rate (us/s)		-5.32273E-06	+/- 2.5E-09
Total phase (deg)	5.1		Apriori accel (us/s/s)		-2.53910983476E-05		Resid phase (deg)		85.4	+/- 19.1

ph/seg (deg) 50.1 45.8 Amplitude 0.116 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.8 79.9 Search (2048X32) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.8 27.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.0 47.1 Inc. seg. avg. 0.111 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.106 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 94.6 el 49.5 pa -66.0 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10963.096 -1833.375 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fY.W.150.18P9EC

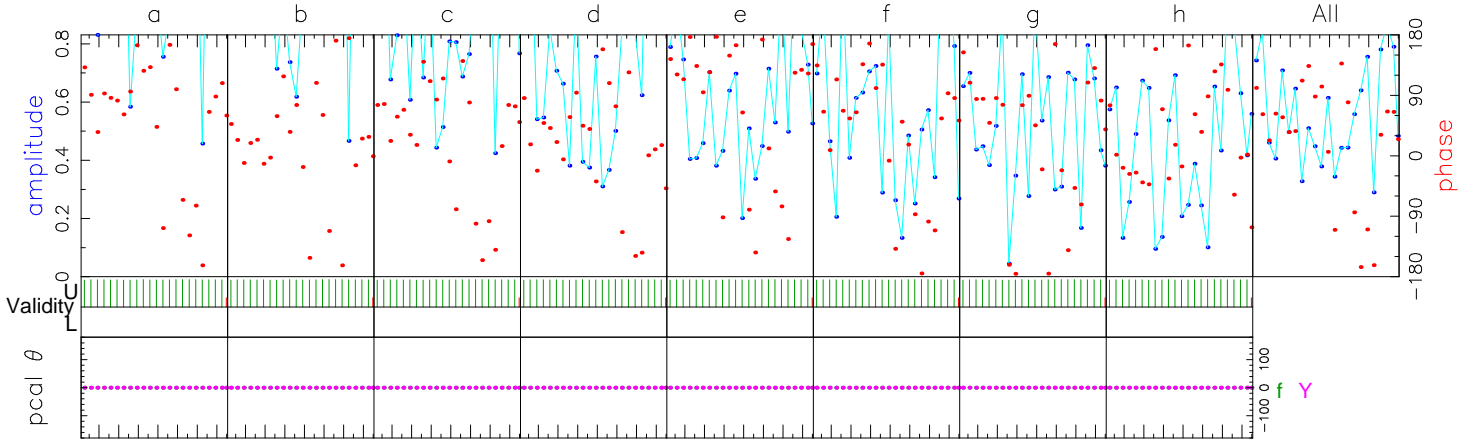


Fringe quality 7

SNR 15.7
Int time 429.904
Amp 0.277
Phase 68.2
PFD 0.0e+00
Delays (us)
SBD 0.001105
MBD -0.006255
Fringe rate (Hz) 0.013560
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120811
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

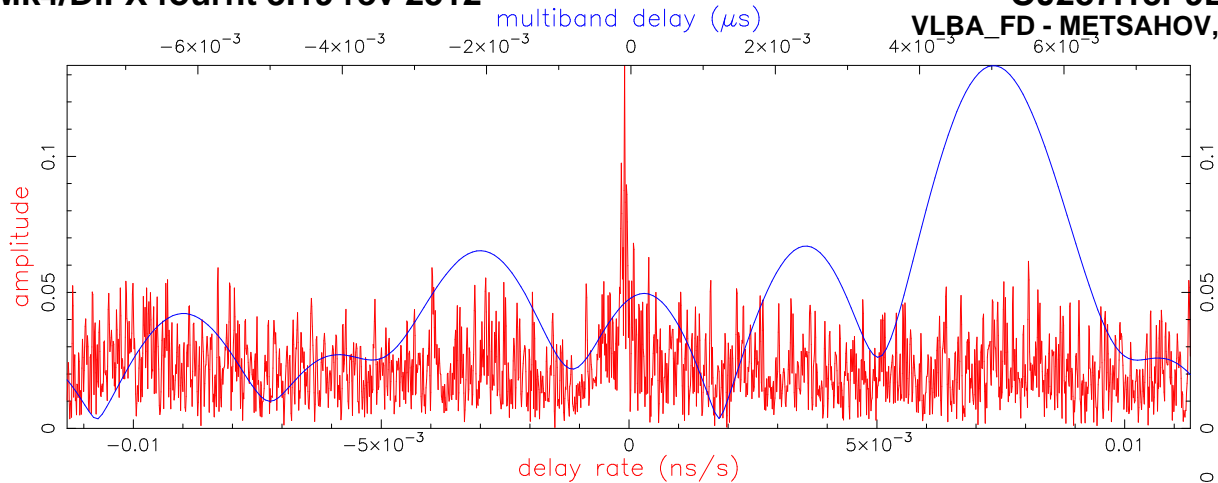
Group delay (usec)(sbd)	3.74883215710E+03	Apriori delay (usec)	3.74883841162E+03	Resid mbdelay (usec)	-6.25452E-03	+/-	6.9E-05
Sband delay (usec)	3.74883951637E+03	Apriori clock (usec)	-8.0689220E+00	Resid sbdelay (usec)	1.10475E-03	+/-	5.5E-04
Phase delay (usec)	3.74883841382E+03	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	2.20007E-06	+/-	2.4E-07
Delay rate (us/s)	1.79203246614E+00	Apriori rate (us/s)	1.79203230872E+00	Resid rate (us/s)	1.57415E-07	+/-	9.4E-10
Total phase (deg)	347.9	Apriori accel (us/s/s)	-2.53910983476E-05	Resid phase (deg)	68.2	+/-	7.3

ph/seg (deg)	80.2	Theor.	17.5	Amplitude	0.277 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	122.0	Search (2048X32)	0.269	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	49.2	Inc. seg. avg.	0.542	Inc. frq. avg.	0.349	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	48.8	Inc. frq. avg.	0.349	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
f: az 94.6 el 49.5 pa -66.0	Y: az 265.0 el 37.4 pa 53.7	u, v (fr/asec)	-10963.096 -1833.375	ion window (TEC)	0.00	0.00	0.00	simultaneous interpolator			

Mk4/DiFX fourfit 3.19 rev 2512

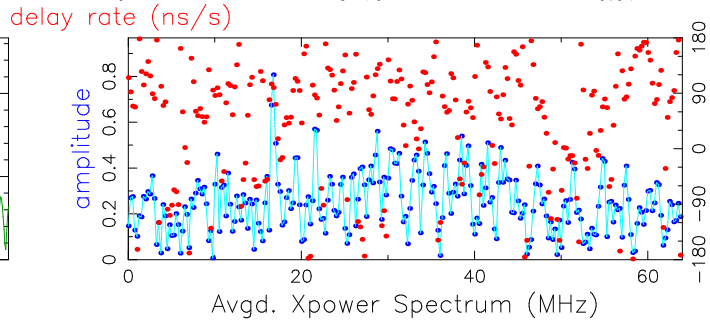
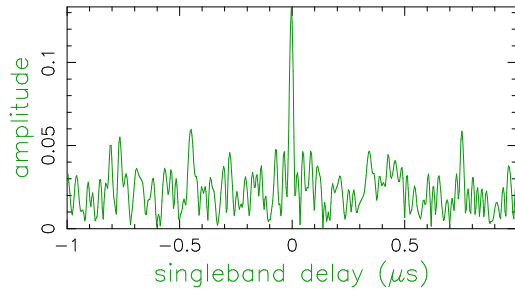
OJ287.18P9EC, No0027, fZ

VLBA_FD - METSAHOV, fgroup W, pol RR



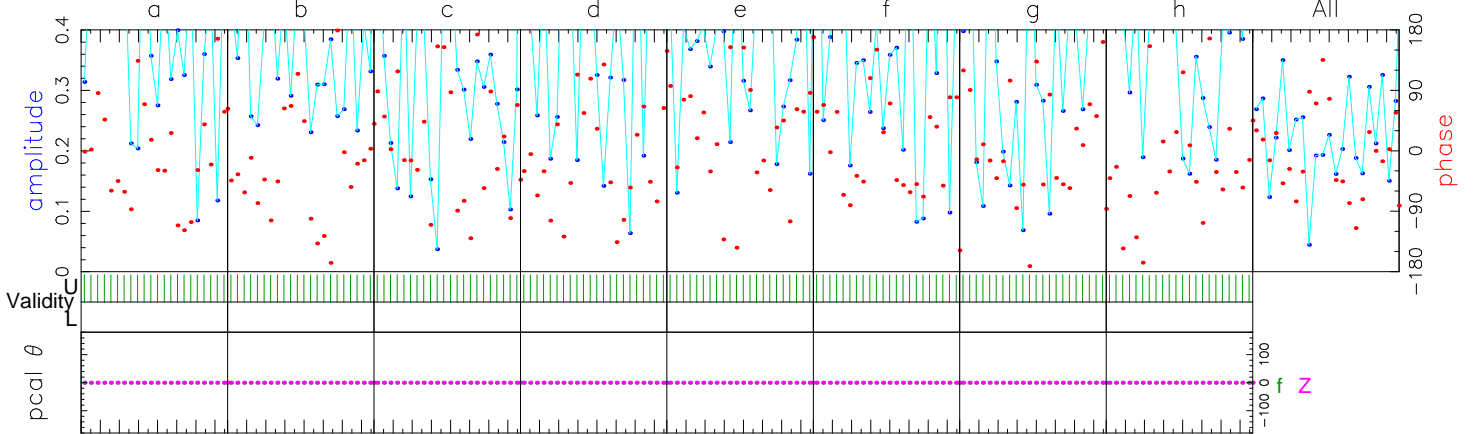
Fringe quality 9

SNR 7.6
 Int time 434.878
 Amp 0.133
 Phase -9.2
 PFD 8.9e-06
 Delays (us)
 SBD -0.003526
 MBD 0.005035
 Fringe rate (Hz)
 -0.007614
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201a
 Yr:day 16383
 Start 2020:115
 Stop 2020:197.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120817
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-11.0	-42.6	34.2	-18.8	30.4	8.9	15.7	-42.4		Phase -9.2
	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2		Ampl. 0.1
	256.2	286.1	450.9	239.2	61.1	255.3	128.1	256.0		Sbd box 256.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used
f	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
f	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec)(sbd)	9.42612184979E+03	Apriori delay (usec)	9.42613243985E+03	Resid mbdelay (usec)	5.03494E-03	+/-	1.4E-04
Sband delay (usec)	9.42612891335E+03	Apriori clock (usec)	4.0066109E+08	Resid sbdelay (usec)	-3.52650E-03	+/-	1.1E-03
Phase delay (usec)	9.42613243955E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-2.96005E-07	+/-	4.9E-07
Delay rate (us/s)	1.56984954421E+00	Apriori rate (us/s)	1.56984963260E+00	Resid rate (us/s)	-8.83940E-08	+/-	1.9E-09
Total phase (deg)	123.5	Apriori accel (us/s/s)	-6.39581002360E-05	Resid phase (deg)	-9.2	+/-	15.1

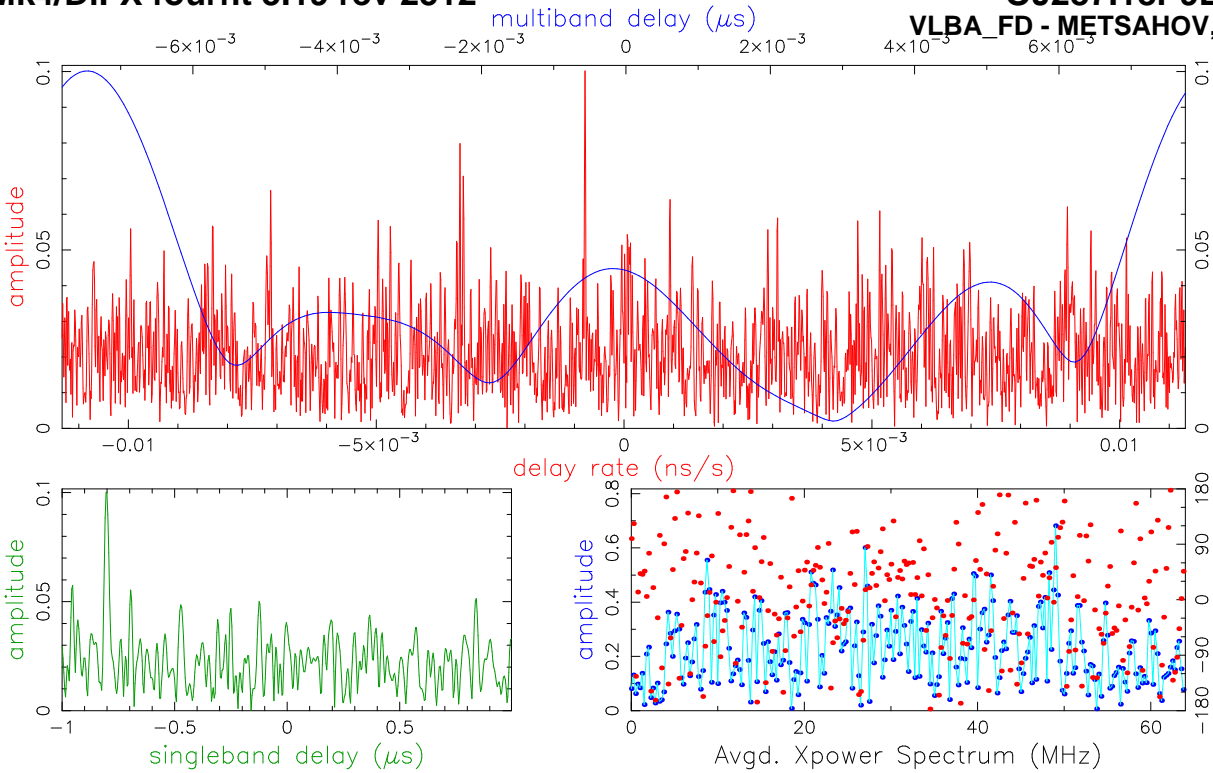
ph/seg (deg)	61.3	Theor.	36.1	Amplitude	0.133 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.1		63.0	Search (2048X32)	0.131	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	33.4		21.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	35.7		37.2	Inc. seg. avg.	0.187	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
				Inc. frq. avg.	0.140	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

f: az 94.6 el 49.5 pa -66.0 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9670.146 -4764.017 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fZ.W.115.18P9EC

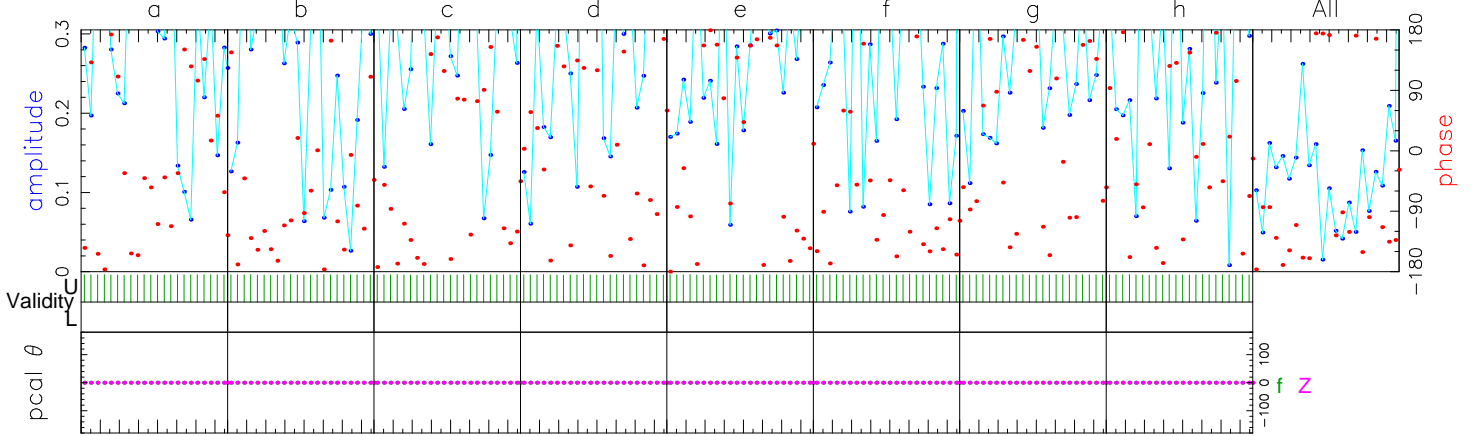
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fZ
VLBA_FD - METSAHOV, fgroup W, pol LR



Fringe quality 0
SNR 5.8
Int time 434.879
Amp 0.102
Phase -143.7
PFD 8.3e-01
Delays (us)
SBD -0.802715
MBD -0.007437
Fringe rate (Hz)
-0.067817
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120822
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-134.3	-113.1	-169.2	-178.7	-173.4	-102.8	-159.6	-133.6	Phase	-143.7
	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0	Ampl.	0.1
	93.2	53.7	310.2	180.2	51.2	53.1	463.2	86.9	Sbd box	51.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.42532812762E+03	Apriori delay (usec)	9.42613243985E+03	Resid mbdelay (usec)	-7.43723E-03	+/-	1.9E-04
Sband delay (usec)	9.42532972485E+03	Apriori clock (usec)	4.0066109E+00	Resid sbdelay (usec)	-8.02715E-01	+/-	1.5E-03
Phase delay (usec)	9.42613243521E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-4.63515E-06	+/-	6.4E-07
Delay rate (us/s)	1.56984884532E+00	Apriori rate (us/s)	1.56984963260E+00	Resid rate (us/s)	-7.87283E-07	+/-	2.5E-09
Total phase (deg)	-11.0	Apriori accel (us/s/s)	-6.39581002360E-05	Resid phase (deg)	-143.7	+/-	19.8

	RMS	Theor.	Amplitude	0.102 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	35.5	47.5	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.6	82.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	31.1	28.0	Inc. seg. avg.	0.089	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	41.3	48.8	Inc. frq. avg.	0.102	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

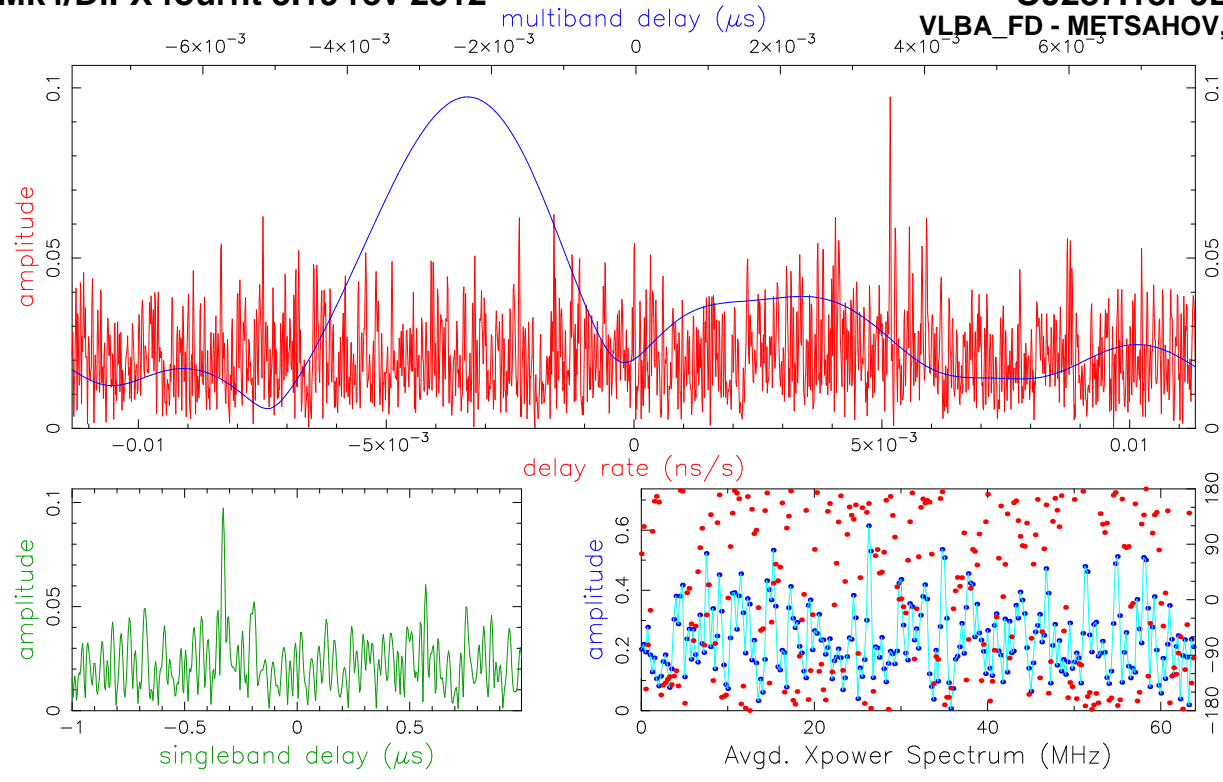
f: az 94.6 el 49.5 pa -66.0 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9670.146 -4764.017 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fZ.W.135.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fZ

VLBA_FD - METSAHOV, fgroup W, pol RL

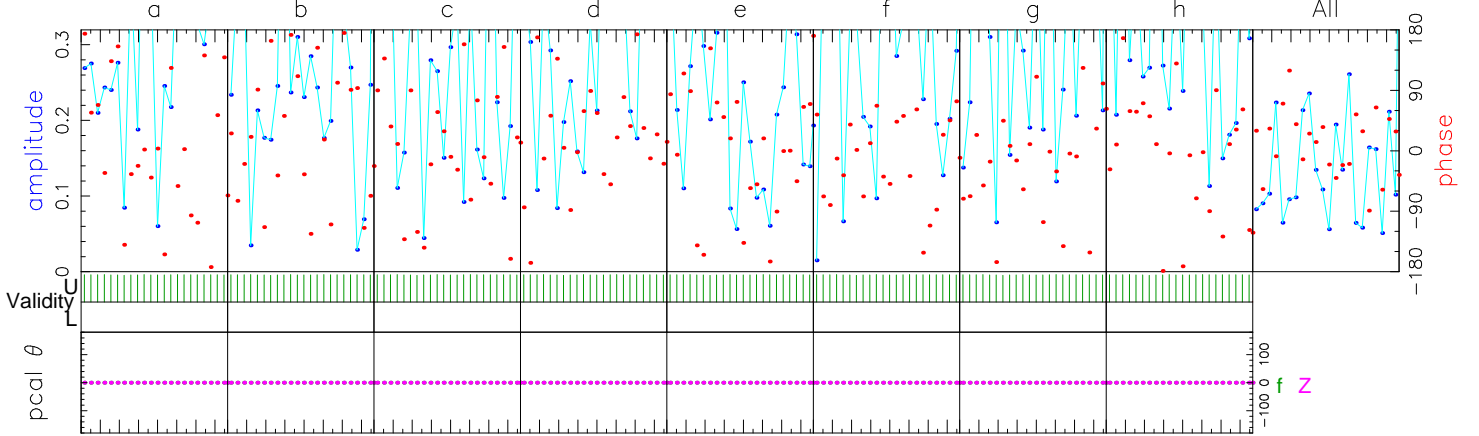


Fringe quality 0

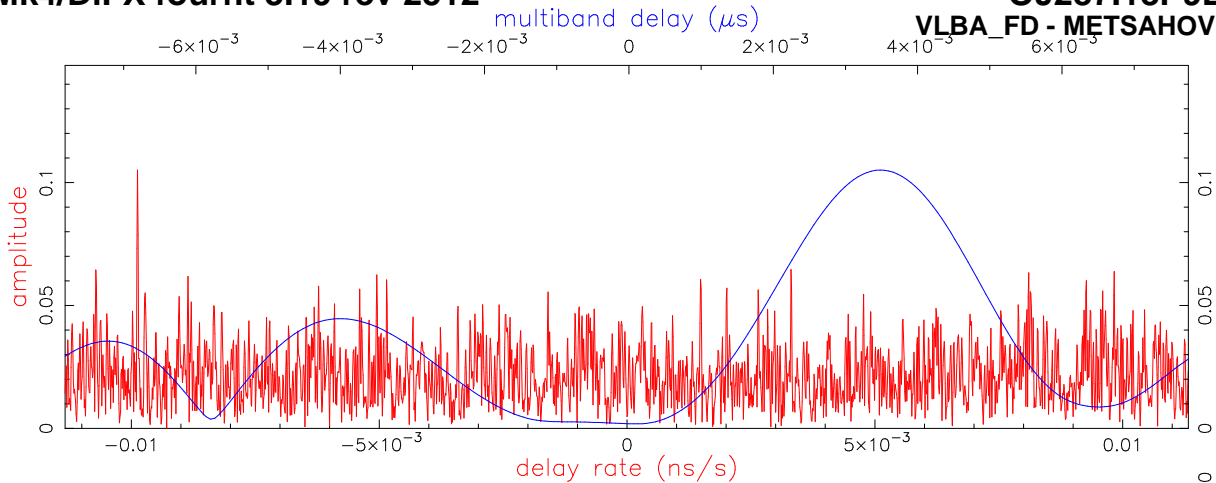
SNR 5.6
 Int time 434.878
 Amp 0.107
 Phase 7.5
 PFD 1.0e+00
 Delays (us)
 SBD -0.328871
 MBD -0.002376
 Fringe rate (Hz)
 0.446228
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120826
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

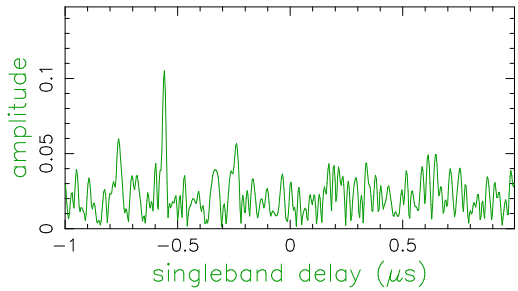


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		9.42580193876E+03			9.42613243985E+03				Resid mbdelay (usec)	-2.37609E-03 +/- 1.9E-04
Sband delay (usec)		9.42580356835E+03			4.0066109E+00				Resid sbdelay (usec)	-3.28871E-01 +/- 1.5E-03
Phase delay (usec)		9.42613244009E+03			9.3000003E-08				Resid phdelay (usec)	2.40254E-07 +/- 6.6E-07
Delay rate (us/s)		1.56985481286E+00			1.56984963260E+00				Resid rate (us/s)	5.18026E-06 +/- 2.6E-09
Total phase (deg)			140.2		-6.39581002360E-05				Resid phase (deg)	7.5 +/- 20.6
ph/seg (deg)	RMS 48.0	Theor. 49.3	Amplitude 49.3	0.107 +/- 0.019	0.096				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.9	86.1	Search (2048X32)	0.000	0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	33.4	29.1	Interp.	0.106	0.106				Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	56.8	50.8	Inc. seg. avg.	0.101	0.101				Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
			Inc. frq. avg.	0.101	0.101				Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 94.6 el 49.5 pa -66.0		Z: az 275.9 el 19.8 pa 31.7		u, v (fr/asec) -9670.146 -4764.017						simultaneous interpolator

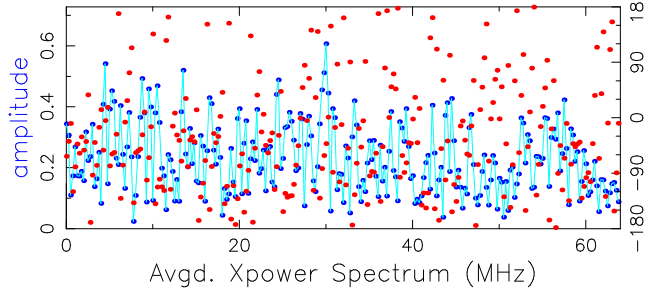


Fringe quality 0

SNR 6.0
 Int time 434.879
 Amp 0.148
 Phase -66.2
 PFD 3.6e-01
 Delays (us)
 SBD -0.559453
 MBD 0.003515
 Fringe rate (Hz)
 -0.852338
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

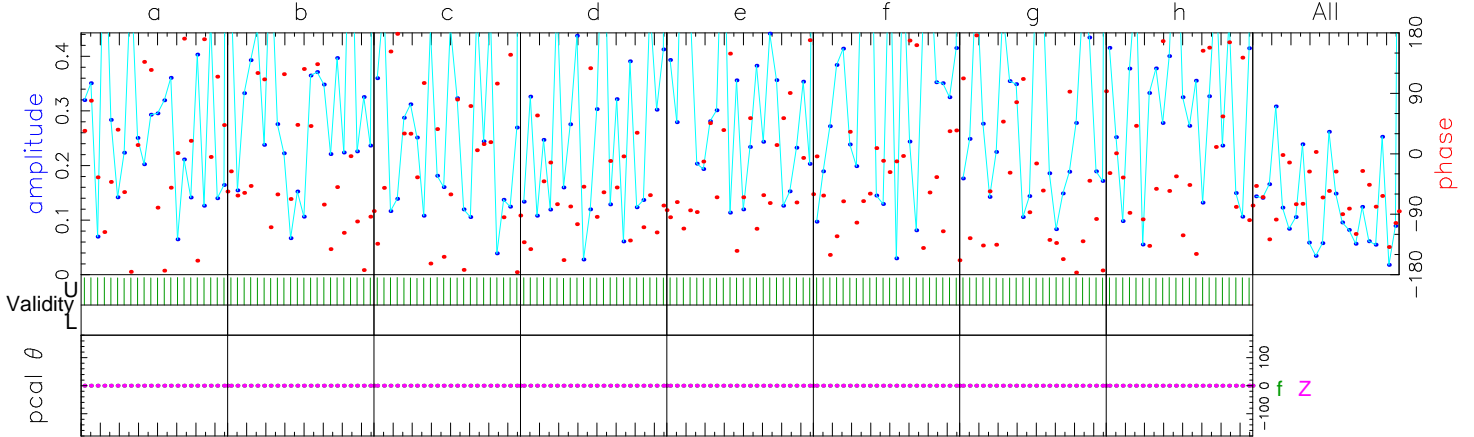


delay rate (ns/s)



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120811
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	9.42557345483E+03	Apriori delay (usec)	9.42613243985E+03	Resid mbdelay (usec)	3.51499E-03	+/-	1.8E-04
Sband delay (usec)	9.42557298635E+03	Apriori clock (usec)	4.0066109E+00	Resid sbdelay (usec)	-5.59453E-01	+/-	1.4E-03
Phase delay (usec)	9.42613243772E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-2.13320E-06	+/-	6.1E-07
Delay rate (us/s)	1.56983973780E+00	Apriori rate (us/s)	1.56984963260E+00	Resid rate (us/s)	-9.89480E-06	+/-	2.4E-09
Total phase (deg)		Apriori accel (us/s/s)	-6.39581002360E-05	Resid phase (deg)	-66.2	+/-	19.0

ph/seg (deg)	RMS 38.6	Theor. 45.6	Amplitude Search (2048X32)	0.148 +/- 0.025	0.100	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	83.1	79.7	Interp.	0.000	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	30.7	26.9	Inc. seg. avg.	0.132	0.132	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	58.0	47.0	Inc. frq. avg.	0.140	0.140	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 94.6 el 49.5 pa -66.0 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9670.146 -4764.017 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fZ.W.90.18P9EC